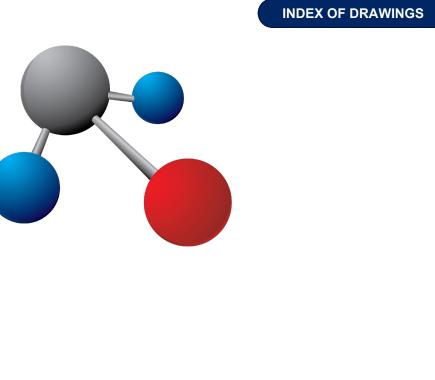
Beach 2025 Street and Utility Improvements



SHEET	DESCRIPTION
	COVER
G1	SHEET INDEX AND LOCATION MAP
G2	GENERAL NOTES
G3	CIVIL NOTES AND ABBREVIATIONS
G4	TRAFFIC CONTROL
C1	2ND AVENUE SE - 4TH STREET SE TO 3RD STREET SE
C2	2ND AVENUE SE - 3RD STREET SE TO 50' N OF 2ND STREET SE
C3	2ND AVENUE SE - 50' N OF 2ND STREET SE TO 85' N OF 1ST STREET SE
C4	2ND AVENUE SE - 85' N OF 1ST STREET SE TO 30' N OF MAIN STREET
C5	3RD AVENUE SE - 4TH STREET SE TO 3RD STREET SE
C6	3RD AVENUE SE - 3RD STREET SE TO 75' N OF 2ND STREET SE
C7	3RD AVENUE SE - 75' N OF 2ND ST SE TO 110' N OF 1ST ST SE
C8	3RD AVENUE SE - 110' N OF 1ST STREET SE TO MAIN STREET
C9	4TH AVENUE SE - 4TH STREET SE TO 3RD STREET SE
C10	4TH AVENUE SE - 3RD STREET SE TO 100' N OF 2ND STREET SE
C11	4TH AVENUE SE - 100' N OF 2ND ST SE TO 130' N OF 1ST ST SE
C12	5TH AVENUE SE - 4TH STREET SE TO 3RD STREET SE
C13	5TH AVENUE SE - 4TH STREET SE TO 3RD STREET SE
C14	5TH AVENUE SE - 3RD STREET SE TO 120' N OF 2ND STREET SE
C15	5TH AVENUE SE - 120' N OF 2ND ST SE TO 150' N OF 1ST ST SE
C16	5TH AVENUE SE - 150' N OF 1ST STREET SE TO MAIN STREET
C17	6TH AVENUE SE - 4TH STREET SE TO 3RD STREET SE
C18	6TH AVENUE SE - 3RD STREET SE TO 135' N OF 2ND STREET SE
C19	6TH AVENUE SE - 135' N OF 2ND ST SE TO 170' N OF 1ST ST SE
C20	6TH AVENUE SE - 170' N OF 1ST ST SE TO 30' N OF MAIN STREET
C21	1ST STREET SE - 4TH AVENUE SE TO 5TH AVENUE SE
C22	1ST STREET SE - 5TH AVENUE SE TO 6TH AVENUE SE
C23	1ST STREET SE - 2ND AVENUE SE TO 3RD AVENUE SE
C24	3RD STREET SE - 5TH AVENUE SE TO 6TH AVENUE SE
C25	MAIN STREET - 3RD AVENUE SE TO 4TH AVENUE SE

PREPARED FOR: City of Beach



AE2S Project No.: 05066-2022-001

November 2024

PROJECT DRAWINGS

Advanced Engineering and Environmental Services, LLC 1815 Schafer St Ste 301 Bismarck, ND 58501 (t) 701-221-0530 www.ae2s.com



Date intz [Plotted: By: Trenton Hintz Last Saved: By: Trenton H AE,S **ENGINEERING TEAM**

CERTIFICATION

SHEET DESCRIPTION

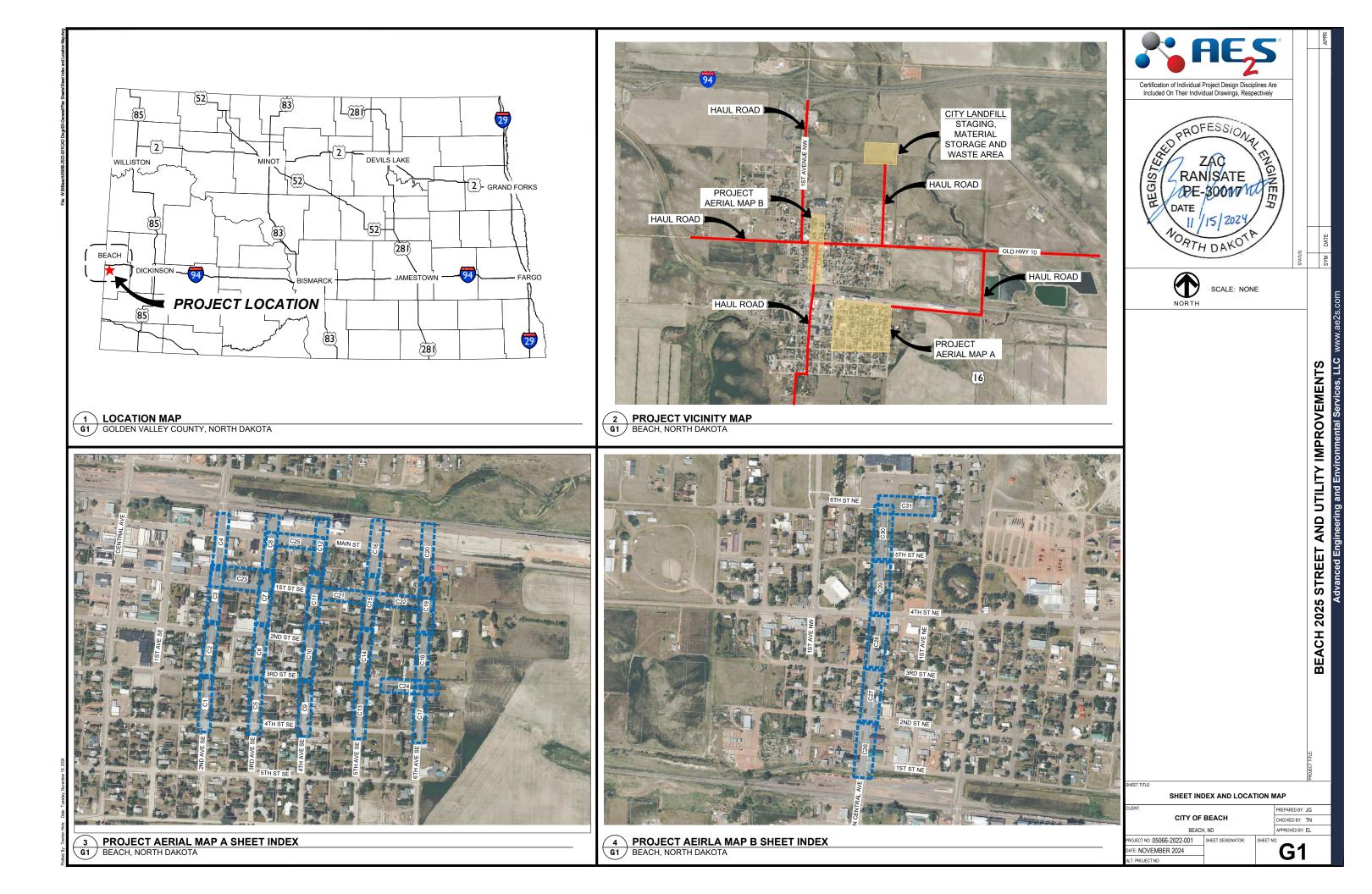
- C26 NORTH CENTRAL AVENUE 1ST STREET NE TO 2ND STREET NE
- C27 NORTH CENTRAL AVENUE - 2ND STREET NE TO 3RD STREET NE
- C28 NORTH CENTRAL AVENUE 3RD STREET NE TO 4TH STREET NE
- NORTH CENTRAL AVENUE 4TH STREET NE TO 5TH STREET NE C29
- C30 NORTH CENTRAL AVENUE 5TH STREET NE TO 6TH STREET NE
- C31 6TH STREET NW - N CENTRAL AVENUE TO 1ST AVENUE NE
- C32 DETAILS
- C33 DETAILS
- C34 DETAILS
- C35 DETAILS
- C36 DETAILS
- C37 DETAILS
- C38 DETAILS

WALTER LOSINSKI JOHN STONEHOCKER ANDY ZACHMANN TOM MARMAN SARAH ROSS LYNN SWANSON **BEVERLY WOLFF**

MAYOR

CIVIL ENGINEER Advanced Engineering and Environmental Services, Inc.

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CONSTRUCTION NOTES

REMOVAL NOTES

THESE NOTES ARE NOT ALL-INCLUSIVE. ALL WORK MUST COMPLY WITH CONSTRUCTION SPECIFICATIONS.

GENERAL NOTES

- THESE NOTES APPLY TO THE ENTIRE PLAN SET EXCEPT AS INDICATED OTHERWISE. CONTRACTOR ULD NOTE THAT ADDITIONAL CONSTR UCTION NOTES AND REQUIREMENTS ARE INCLUDED ON INDIVIDUAL DRAWINGS AND IN THE SPECIFICATIONS
- THIS PLAN SET HAS A LEGEND WITH A LIST OF GENERAL ABBREVIATIONS, SYMBOLS, AND MATERIALS 2 LISTED ON IT. SOME SYMBOLS, MATERIALS, AND ABBREVIATIONS MAY NOT BE UTILIZED ON THIS SPECIFIC PROJECT
- 3. ALL CONTOURS, ELEVATIONS, AND COORDINATES FOR THE PROJECT ARE BASED ON NAD83 STATE PLANE COORDINATE SYSTEM, NORTH DAKOTA SOUTH ZONE AND NAVD-88.
- THE AERIAL PHOTOGRAPHY SHOWN ON THE CONSTRUCTION PLAN SHEETS WAS COLLECTED IN 2017 BY WSN. THEREFORE, ACTUAL FIELD CONDITIONS MAY VARY FROM THOSE DISPLAYED IN THE CONSTRUCTION PLANS.
- 5. ALL PAVEMENT REMOVAL AND RESTORATION QUANTITIES LISTED IN THE PLANS REFER TO THE BASE BID ONLY. REFER TO ALTERNATIVE BID TAB FOR LIST OF QUANTITIES FOR FULL STREET WIDTH REPLACEMENT
- 6. ITEMS NOT INCLUDED IN THE BID FORM AS A PAY ITEM BUT INCLUDED ELSEWHERE IN THE PLANS SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER AND SHALL BE CONSIDERED INCIDENTAL ITEMS, ENGINEER SHALL REVIEW AND VERIFY ACTUAL PAID QUANTITIES IN THE FIELD.
- 7. CONTRACTOR SHALL PROVIDE A ONE (1) WEEK NOTICE TO ENGINEER, OWNER, AND PROPERTY OWNERS PRIOR TO BEGINNING ANY CONSTRUCTION
- COLOR IS USED ON THESE PLANS TO DESIGNATE VARIOUS SYMBOLS AND QUANTITIES. CONTRACTOR MUST ENSURE THAT PERSONNEL WORKING ON THIS PROJECT ARE IN POSSESSION OF COLORED PLANS ONLY
- 9. MISCELLANEOUS ITEMS SUCH AS MAILBOXES, ROAD SIGNS, FENCES, LIGHT AND POWER POLES, AND CULVERTS, UNLESS SPECIFICALLY CALLED OUT, SHALL BE PROTECTED OR REMOVED AND REPLACED BY THE CONTRACTOR INCIDENTAL TO THE CONTRACT.
- 10. CONTRACTOR SHALL LIMIT CONSTRUCTION WORK TO THE AREA BOUNDED BY THE PUBLIC SIDEWALKS, PROPERTY LINES CONSTRUCTION LIMITS OR R O W. LINI ESS APPROVED BY ENGINEER. IN NO CASE SHALL MATERIALS OR EQUIPMENT BE PLACED ON THE PUBLIC SIDEWALK OR ON PRIVATE PROPERTY, UNLESS WRITTEN AUTHORIZATION IS PROVIDED IN ADVANCE BY AN APPROPRIATE ENTITY. CONTRACTOR SHALL LIMIT CONSTRUCTION TO ONE AREA (PER CONSTRUCTION CREW) OF THE PROJECT UNLESS OTHERWISE APPROVED BY THE ENGINEER, ANY DAMAGE FROM CONSTRUCTION ACTIVITIES OUTSIDE OF THE CONSTRUCTION LIMITS OR R.O.W. SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE
- 11. MANHOLE CASTINGS AND VALVE COVERS SHALL BE COVERED AND PROTECTED DURING PAVING AND SEAL COAT OPERATIONS FROM MATERIALS THAT MAY ADHERE TO THE CASTING SURFACE. ALL MANHOLE CASTINGS AND GATE VALVE BOXES SHALL BE ADJUSTED TO FINAL GRADE AND CLEANED OF ANY FOREIGN MATERIAL, INCIDENTAL TO CONTRACT
- 12. THE OWNER WILL INITIALLY FURNISH AND SET CONSTRUCTION STAKES AND MARKS FOR PIPELINE ALIGNMENT AND PROJECT CONTROL. THESE STAKES AND MARKS WILL BE SET ONLY AT THE ONSET OF THE PROJECT AND SHALL CONSTITUTE THE FIELD CONTROL FOR THE CONTRACTOR'S USE IN ESTABLISHING ALL NECESSARY CONTROL TO PERFORM THE WORK. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL STAKES AND MARKS. THE OWNER AND ENGINEER ARE NOT RESPONSIBLE FOR STAKES AND MARKS DESTROYED OR DISTURBED. THE CONTRACTOR SHALL HIRE THE ENGINEER/SURVEYOR AND PAY TO RESET ANY DESTROYED OR DISTURBED STAKES AND MARKS AT ENGINEER'S CURRENT HOURLY AND REIMBURSABLE FEES. BEFORE THE SURVEY CREW LEAVES THE SITE, THE CONTRACTOR SHALL DETERMINE THE MEANING OF ALL STAKES, MEASUREMENTS, AND MARKS.
- 13. CONTRACTOR SHALL BE RESPONSIBLE FOR DRAINAGE AND EROSION CONTROL DURING CONSTRUCTION AND AT PROJECT COMPLETION. AN EROSION CONTROL PLAN WILL BE PREPARED AND SUBMITTED BY THE CONTRACTOR TO THE NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY AND ENGINEER PER SPECIAL PROVISIONS BEFORE COMMENCEMENT OF WORK
- 14. CONTRACTOR TO PROVIDE AND MAINTAIN ADEQUATE DEWATERING EQUIPMENT TO REMOVE AND DISPOSE OF ANY SURFACE AND GROUNDWATER ENTERING THE TRENCH. ALL COSTS ASSOCIATED WIT CONTRACTOR SELECTED DEWATERING METHODS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT
- 15 ALL BOLTS AND ANCHOR BOLTS INSTALLED THROUGHOUT THE PROJECT SHALL BE STAINLESS STEEL JNLESS OTHERWISE NOTED IN THE DRAWINGS AND SPECIFICATIO
- 16. ONLY THOSE ROADS DESIGNATED AS TRUCK ROUTES CAN BE USED FOR THIS PROJECT. UNLESS OTHER ARRANGEMENTS ARE MADE AND APPROVED BY THE ENGINEE AND LOCAL GOVERNING AGENCY. LOAD LIMITS ARE ONLY MAXIMUM LIMITS AND DO NOT REPRESENT THE LOAD CARRYING CAPACITY OF THE HA ROAD. DAMAGE TO ANY ROAD (HAUL ROAD OR OTHERWISE) CAUSED BY THE CONTRACTOR SHALL BE THE HAUL INCIDENTAL AND REPAIRED TO PRECONSTRUCTION CONDITION AT THE CONTRACTORS EXPENSE REGARDLESS OF LOAD LIMITS PROVIDED. CONTRACTOR MUST MEET WITH INSPECTORS FROM GOVERNING AUTHORITY FOR PRE AND POST CONSTRUCTION INSPECTIONS.
- 17. THE CONTRACTOR SHALL PROVIDE AND INSTALL DETECTOR TAPE ON ALL SANITARY SEWER GRAVITY MAIN AND TRACER WIRE AND DETECTOR TAPE ON ALL WATER MAINS AND SANITARY SEWER FORCE MAINS. MATERIALS AND INSTALLATION SHALL BE PER SPECIFICATIONS.
- 18. CONTRACTOR SHALL SALVAGE EXISTING TOPSOIL TO FULL DEPTH OR A MAXIMUM OF 8 INCHES FROM THE ENTIRE AREA TO BE DISTURBED AND WHERE EXCAVATED MATERIAL IS STOCKPILED (EXCLUDING TOPSOIL STOCKPILES). TOPSOIL SHALL BE FREE FROM VEGETATION. FOR REPLACEMENT DURING RESTORATION. THE TOPSOIL SHALL BE STRIPPED AND STOCKPILED PRIOR TO PIPELINE EXCAVATION PERFORMED BY BACKHOE. ANY CONTAMINATED TOPSOIL SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.
- 19. CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING MINIMUM TESTING PRIOR TO PLACEMENT OF ALL MATERIALS REQUIRING COMPACTION CONTROL A MINIMUM OF ONE POINT PROCTOR FOR EACH TYPE OF MATERIALS REQUIRING COMPACTION CONTROL A MINIMUM OF ONE 5 POINT PROCTOR FOR EACH ENGINEER'S REFERENCE AND IDENTIFICATION. THIS REQUIREMENT WILL APPLY TO "COMMON EXCAVATION YPE A" AND PIPE BACKFILL MATERIAL. THE COST OF TESTING WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE BID PRICE FOR RESPECTIVE ITEMS.

WATER REQUIRED FOR COMPACTION PURPOSES SHALL NOT BE MEASURED OR PAID FOR SEPARATELY. BUT SHALL BE INCLUDED IN THE PRICE OF THE ITEM BEING PLACED

TRAFFIC NOTES:

- CONTRACTOR WILL GIVE THE ENGINEER & MINIMUM OF SEVEN (7) DAYS NOTICE PRIOR TO PLACING AFFIC CONTROL SIGNS FOR UNDERGROUND CONSTRUCTION, PAVEMENT REPLACEMENT, AND STREETSCAPE CONSTRUCTION
- 2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INFORM RESIDENTS AND BUSINESS OWNERS TO MOVE VEHICLES AND OF NO PARKING CONDITIONS TO ACCOMMODATE CONSTRUCTION ACTIVITIES A MINIMUM OF 48 HOURS IN ADVANCE. CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ACCESS AT ALL TIMES. CONTRACTOR SHALL MINIMIZE DISRUPTION OF TRAFFIC ON STREETS AND SIDEWALKS DURING THE ENTIRE
- 3 CONTRACTOR SHALL FOLLOW THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS AND GUIDES FOR TRAFFIC CONTROL FOR STREET AND HIGHWAY CONSTRUCTIO

- CONTRACTOR SHALL SAW CUT FULL DEPTH ALL CURB AND GUTTER, SIDEWALK, AND PAVEMENT PRIOR TO REMOVAL IN FRONT OF ALL RECESSED PORTIONS OF BUILDINGS, CONCRETE SHALL BE REMOVED BUILDING ENTRANCES BY MEANS OF FULL-DEPTH SAW CUT. ALL WORK INCIDENTAL TO CONTRACT.
- THE OWNER RESERVES THE RIGHT TO INSPECT AND RETAIN ANY REMOVED VALVES. HYDRANTS STREETLIGHT POLES AND BASES, TRAFFIC SIGNS AND POSTS, MANHOLE FRAMES, CATCH BASIN FRAMES SOIL MATERIALS, OR OTHER SALVAGEABLE MATERIAL AND SHALL BE RELOCATED TO A DESIGNATED SITE AS APPROVED BY THE OWNER. EXCESS EXCAVATED MATERIAL INCLUDING SUBGRADE, PIPE, STUMPS ROOTS, ASPHALT AND CONCRETE PAVEMENT, SIDEWALK, CURB AND GUTTER, AND ANY OTHER ITEMS CITY DOES NOT WISH TO SALVAGE SHALL BECOME CONTRACTOR'S PROPERTY AND SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY, INCIDENTAL TO THE CONTRACT.
- ALL PATCH AREAS SHALL BE SAW-CUT TO PRODUCE A VERTICAL EDGE. EDGE SHALL BE TACK COATED IMMEDIATELY BEFORE PAVING.
- ALL PIPELINES AND SERVICE LEADS THAT WILL BE REPLACED SHALL BE REMOVED TO THE GREATEST EXTENT POSSIBLE WHEN NEW PIPING IS TO BE INSTALLED IN THE SAME ALIGNMENT OR TRENCH PROXIMITY AS EXISTING PIPE. CONTRACTOR SHALL PLUG OPEN ENDS OF ABANDONED PIPES WITH GROUT WHEN IT IS NOT PRACTICAL TO REMOVE ABANDONED PIPE. ALL PIPE TO BE ABANDONED IN PLACE SHALL BE APPROVED BY THE ENGINEER. REMOVAL AND DISPOSAL OR PLUGGING OF ABANDONED PIPE SHALL BE INCIDENTAL TO PIPELINE INSTALLATION.
- ALL MANHOLES THAT WILL BE REPLACED SHALL BE REMOVED TO THE GREATEST EXTENT POSSIBLE WHEN NEW MANHOLES, INLETS, AND PIPING IS TO BE INSTALLED IN THE SAME LOCATION/ALIGNMENT OR TRENCH PROXIMITY AS EXISTING PIPE.

UTILITY NOTES:

- THE APPROXIMATE LOCATION OF KNOWN EXISTING UNDERGROUND UTILITIES ARE SHOWN ON THE PLANS OTHER UNKNOWN UTILITIES MAY EXIST. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND SHALL BE RESPONSIBLE FOR PROTECTING ALL LITILITIES OR REPAIRING ANY DAMAGE WHICH OCCURS BECAUSE OF THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL EXISTING UTILITIES INCIDENTAL TO CONTRACT. NOT ALL OVERHEAD UTILITIES ARE SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION, ELEVATION, SIZE, AND MATERIAL OF THE EXISTING UNDERGROUND PIPING AT THE POINTS OF CONNECTION. APPROVED TRANSITIONS SHALL BE USED TO MAKE ALL CONNECTIONS. PRECISE LOCATION AND ARRANGEMENT OF CONNECTIONS OF NEW PIPELINES. WITH EXISTING PIPELINES ARE TO BE FIELD VERIFIED. PROVIDE FITTINGS, ADAPTERS, SOLID SLEEVE CLOSURES, HARNESSED MECHANICAL COUPLINGS, AND ROTATE FITTINGS, AND DEFLECT JOINTS (WITHIN MANUFACTURER'S SPECIFICATIONS) AS REQUIRED TO MAKE CONNECTIONS. PROVIDE TEMPORARY PLUG WITH FACTORY OUTLET SIZED AS REQUIRED FOR CONTRACTOR'S TESTING AND DISINFECTION WORK FORE MAKING CONNECTION. ANY DIFFERENT FITTINGS NECESSARY TO MAKE ALL CONNECTIONS SHALL BE INCIDENTAL
- CONTRACTOR SHALL CALL THE NORTH DAKOTA ONE CALL (1-800-795-0555) TO LOCATE UNDERGROUND FACILITIES PRIOR TO ANY EXCAVATION. ONE-CALL DOES NOT GUARANTEE LOCATION OF UTILITIES. ADDITIONAL UNMARKED UTILITIES MAY BE PRESENT WITHIN THE PROJECT AREA
- 4. UTILITY APPURTENANCES SHALL BE ADJUSTED AND/OR REMOVED BY RESPECTIVE UTILITY COMPANIES. UTILITY COMPANIES SHALL BE CONTACTED BY CONTRACTOR TO COORDINATE ADJUSTMENTS
- THE PROTECTION, TEMPORARY SUPPORT, ADJUSTMENT, OR REQUIRED RELOCATION OF ANY UTILITIES AND STRUCTURES (UNDERGROUND, SURFACE, OR OVERHEAD) IS TO BE COORDINATED WITH THE CONTRACTOR AND THE OWNER OF EACH UTILITY BEFORE CONSTRUCTION/INSTALLATION IS STARTED. CONTRACTOR IS RESPONSIBLE FOR ALL RELATED COSTS.
- WHERE EXISTING UTILITY WIRES (TELEPHONE, ELECTRIC, FIBER OPTIC) ARE LOCATED ADJACENT TO OR 6. ABOVE THE PROPOSED WORK, CONTRACTOR SHALL TEMPORARILY SUPPORT EXISTING WIRES AND INSTALL PIPING UNDER EXISTING WIRES. ANY DECISION TO HAVE THE EXISTING UTILITIES RELOCATE WIRES WILL BE AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL HAVE THE UTILITY COMPANY PROVIDE AN ON-SITE REPRESENTATIVE TO INSPECT THE EXCAVATION AND TEMPORARY SUPPORT OF THE EXISTING UTILITY WIRES TO ENSURE THEY CONCUR WITH THE METHOD USED FOR TEMPORARY SUPPORT. THE CONTRACTOR IS RESPONSIBLE FOR COMPLETION OF WORK AS INDICATED AND MEETING ALL UTILITY REQUIREMENTS TO ENSURE A FINAL INSTALLATION THAT BENEFITS BOTH THE CITY AND THE UTILITY COMPANY

PROTECTION NOTES:

- DURING CONSTRUCTION PROVIDE BARRIERS AROUND EXCAVATIONS AS NECESSARY TO PROTECT THE PUBLIC CONTRACTOR TO LIMIT LENGTH OF OPEN TRENCH TO 100 FEET MAXIMUM NO OPEN TRENCH SHALL BE LEFT UNATTENDED. ALL TRENCHES TO BE BACKFILLED AND PROTECTED PRIOR TO THE END OF EACH WORKDAY. COSTS FOR THESE MEASURES SHALL BE INCIDENTAL TO THE CONTRACT.
- UNDERGROUND SPRINKLER SYSTEMS AND LANDSCAPING FEATURES SHALL BE PROTECTED BY CONTRACTOR ANY DAMAGED COMPONENTS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL CONTACT PROPERTY OWNER PRIOR TO REMOVING ANY SPRINKLER OR LANDSCAPING ITEMS AND COORDINATE TEMPORARY INTERRUPTIONS AND FINAL INSPECTIONS OF REPAIRED/REPLACED
- 3. CONTRACTOR MUST RE-ESTABLISH ANY DISTURBED PROPERTY PINS OR CONTROL POINTS WITH SERVICES OF REGISTERED LAND SURVEYOR (RLS) REGISTERED IN NORTH DAKOTA. CONTRACTOR MUST SUBMIT CERTIFICATE OF SURVEY FOR EACH PROPERTY WITH RE-ESTABLISHED PROPERTY PINS. THE COST FOR RLS SERVICES SHALL BE INCIDENTAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING OSHA STANDARDS FOR EXCAVATION AND TRENCHING.
- 5 CONTRACTOR SHALL CLEAN STREETS DRIVEWAYS INTERSECTIONS FTC AFFECTED BY CONSTRUCTION CONTRACTOR SHALL REPAIR AND CLEAN PAVEMENTS TO THE CONDITION THEY WERE IN PRIOR TO THE START OF CONSTRUCTION AND PRIOR TO REOPENING LANE PORTIONS TO TRAFFIC BEFORE PAYMENT FOR RESTORATION BID ITEMS WILL BE PAID.
- 6. CONTRACTOR TO PROVIDE CONCRETE TRUCK WASH OUT AREA AT SITE EXIT. CLEAN UP AND REMOVE WASH OUT DEBRIS FROM THE SITE ON A WEEKLY BASIS
- CONTRACTOR SHALL TAKE MEASURES TO PROTECT EXISTING ASPHALT AND CONCRETE SURFACES NO SCHEDULED FOR REPLACEMENT FROM DAMAGE. ANY DAMAGE SHALL BE REPLACED OR REPAIRED AT THE CONTRACTORS EXPENSE
- 8. CONTRACTOR SHALL NOT DISTURB, DAMAGE, OR REMOVE ANY EXISTING TREES OR BUSHES. NOTIFY THE ENGINEER PRIOR TO REMOVAL OF ANY TREES.

PIPELINE INSTALLATION NOTES:

- ALL EXISTING SANITARY SERVICES THAT ARE CONNECTED TO THE SANITARY SEWER ARE BEING REPLACED M THE NEW SANITARY SEWER MAIN TO 2' BEYOND THE CURB LINE. UNLESS OTHERWISE SPECIFIE
- 2. CONTRACTOR SHALL VERIFY THE LOCATION, SIZE, AND MATERIAL OF THE EXISTING SANITARY SEWER MAINS, WATERMAINS AND LEADS AT THE POINTS OF CONNECTION. APPROVED COUPLINGS SHALL BE USED TO MAKE CONNECTIONS AFTER VERIFICATION. RECONNECTION OF SANITARY SEWER MAINS, WATER MAINS, AND SERVICE LEADS SHALL BE INCIDENTAL TO PIPELINE INSTALLATION
- 3 CONTRACTOR SHALL MAINTAIN SANITARY SEWER SERVICE AT ALL TIMES DURING CONSTRUCTION. IF REQUIRED, THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, AND EQUIPMENT TO PROVIDE TEMPORARY BYPASS PUMPING AND ASSOCIATED PIPING AROUND CONSTRUCTION AREA
- 4. WHEN SOFT OR UNSTABLE MATERIAL IS ENCOUNTERED AT THE TRENCH SUBGRADE WHICH WILL NOT UNIFORMLY SUPPORT THE PIPE, EXCAVATE THE MATERIAL TO THE DEPTH DIRECTED BY THE ENGINEER AND BACKFILL TO TRENCH BOTTOM ELEVATION WITH TYPE A1 MATERIAL INCIDENTAL TO THE CONTRACT
- WATERMAIN DEFLECTIONS FROM A STRAIGHT LINE OR GRADE ARE TO BE MADE WITH FITTINGS, DEFLECTED JOINTS, SHORTER PIPE SECTIONS, OR A COMBINATION OF THESE METHODS TO CONFORM TO THE ALIGNMENT AND PROFILE INDICATED ON THE DRAWINGS AND SPECIFIED. DEFLECTED JOINTS ARE TO EXCEED THE MANUFACTURER RECOMMENDED VALUES SPECIFIED FOR THE PIPE JOIN
- 6. WATERMAIN MINIMUM DEPTH OF COVER SHALL BE 7 FEET 6 INCHES MEASURED FROM THE GROUND SURFACE TO THE TOP OF THE PIPE UNLESS OTHERWISE SHOWN ON THE PLANS. PIPES SHALL BE LOWERED, AS REQUIRED, TO AVOID CONFLICTS WITH EXISTING UTILITIES AND TO MAINTAIN SPECIFIED AND REQUIRED SEPARATIONS
- 7. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR, REPLACEMENT AND REROUTING OF ALL WATERMAIN SERVICE LINES DAMAGED DURING PIPELINE CONSTRUCTION. INCIDENTAL TO CONTRACT
- WATER SERVICE SHALL NOT BE INTERRUPTED. WATER TRANSMISSION VIA THE EXISTING DISTRIBUTION SYSTEM IS CRITICAL AND CONTRACTOR SHALL PROTECT EXISTING AND NEW PIPES TO ENSURE WATER QUANTITY AND QUALITY IS IN NO WAY DISRUPTED.
- 9. IF CONTRACTOR EXPOSES SANITARY SEWER MAIN PIPES WHILE INSTALLING NEW WATERMAIN CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS NECESSARY TO PROVIDE A MINIMUM 10 FT HORIZONTACTOR SHALL FUNCTION AND INSTALL FALL WITH TAND INSTALL FUNCTION TO FLOWING TO F INCIDENTAL TO THE CONTRACT.
- 10. LOCATING EXISTING WATER AND SEWER SERVICE LINES SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. EXACT LOCATION OF EXISTING WATER AND SEWER SERVICE LINES ARE NOT KNOWN.
- 11. THE CONTRACTOR SHALL MAINTAIN WATER SERVICES TO ALL RESIDENTS AT ALL TIMES EXCEPT FOR SHORT PERIODS WHEN MAKING THE NEW CONNECTION. THE CONTRACTOR SHALL NOTIFY THE RESIDENTS 24 HOURS IN ADVANCE WHEN WATER SERVICE WILL BE DISCONNECTED. THE CONTRACTOR MUST THE APPROVAL OF THE ENGINEER. IF THE CONTRACTOR ELECTS TO SET UP A TEMPORARY WATER SUPPLY, POLYETHYLENE PIPE OR ANOTHER PIPE APPROVED BY THE ENGINEER MUST BE USED. RUBBERIZED GARDEN HOSE MAY NOT BE USED.
- 12. CONTRACTOR SHALL USE ANY MEANS AT HIS DISPOSAL, INCLUDING TRENCH BOX TECHNOLOGY TO ENSURE SERVICE PIPE TOP OF TRENCH WIDTH DOES NOT EXCEED THE WIDTHS INDICATED ON THE DRAWINGS
- 13. THE SIZE OF THE EXISTING WATER AND SEWER SERVICE LINES IS UNKNOWN. ALL CONNECTIONS AND TITINGS REQUIRED TO CONNECT THE NEW SERVICE LINES TO THE EXISTING SERVICE LINES SHALL BE CONSIDERED INCIDENTAL. THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE THE SERVICE LINES FROM THE EXISTING CONNECTION POINT TO THE LOCATION OF THE TAP ON THE EXISTING MAIN AND SHALL ALSO BE CONSIDERED INCIDENTAL
- 14. CONTRACTOR SHALL ALLOW THE OWNER'S REPRESENTATIVE ON SITE TO COLLECT GPS DATA ON THE INSTALLED UTILITIES AND APPURTENANCES.

COORDINATION NOTES:

- CONTRACTOR WILL BE REQUIRED TO LIMIT STAGING AREAS TO THOSE AREAS SHOWN ON THE DRAWINGS OR AS DETERMINED IN THE FIELD BY THE ENGINEER AND THE OWNER.
- 2. DESIGNATED HAUL ROUTES SHALL BE REQUESTED BY THE CONTRACTOR IN ADVANCE AND APPROVED BY THE ENGINEER AND THE OWNER.
- CONSTRUCTION ON A CITY BLOCK SHALL PROCEED CONTINUOUSLY FROM ONE END TO THE OTHER. TRAFFIC SHALL BE MAINTAINED INTO PROPERTY ENTRIES, UNLESS OTHERWISE APPROVED BY PROPERTY OWNER. THE MAXIMUM LENGTH OF OPEN TRENCH SHALL BE 100 FEET UNLESS ADDITIONAL CREWS ARE PROVIDED FOR SEPARATE LOCATIONS. CONTRACTOR SHALL RESTORE SURFACES AS WORK PROGRESSES AND NOT WAIT UNTIL THE END OF THE PROJECT.
- 4. CONTRACTOR SHALL COORDINATE THE SUPPORT OF UTILITY CROSSINGS WITH UTILITY COMPANY, TRAFFIC CONTROL, AND PEDESTRIAN CROSSING ISSUES WITH THE ENGINEER AND OWNER, AND MOBILITY ISSUES WITH OTHER CONSTRUCTION SITES IN THE AREA.
- 5 CONTRACTOR SHALL MAINTAIN CONTINUOUS ACCESS TO EXISTING FACILITIES, DRIVEWAYS, AND PARKING LOTS AFFECTED BY CONSTRUCTION FOR THE DURATION OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INFORM RESIDENTS AND BUSINESS OWNERS TO MOVE VEHICLES AND OF NO PARKING CONDITIONS TO ACCOMMODATE CONSTRUCTION AND CONSTRUCTION RELATED ACTIVITIES A MINIMUM OF B HOURS IN ADVANCE. CONTRACTORS'S RESPONSIBILITY TO MAINTAIN ACCESS AT ALL TIMES.
- 6. CONTRACTOR SHALL NOTIFY ENGINEER, OWNER, AND PROPERTY OWNERS AT LEAST 48 HOURS IN ADVANCE (EXCLUDING WEEKENDS AND HOLIDAYS) OF TEMPORARY DISRUPTION OF TRAFFIC OR ACCESS, WHEN SECTIONS OF SIDEWALK AND/OR ROAD WILL BE REMOVED AND REPLACED, OR WHEN WATER SERVICE WILL BE DISRUPTED.
- 7. COORDINATE STORAGE AND STOCKPILE SITES WITH THE ENGINEER AND OWNER
- 8. CONTRACTOR SHALL PROVIDE A TEMPORARY 4" (MINIMUM) GRAVEL DRIVING SURFACE WITHIN 72 HOURS OF CLOSING ROADWAY. IN ADDITION, THE CONTRACTOR SHALL ALSO PROVIDE ALL NECESSARY TRAFFIC CONTROL AND SIGNAGE AS REQUIRED TO CLOSE THE ROADWAY AND DETOUR TRAFFIC. AFTER SURFACE RESTORATION IS COMPLETE. TEMPORARY GRAVEL SHALL BE STOCKPILED WITHIN THE CONSTRUCTION LIMITS. THE SALVAGED GRAVEL WILL BECOME THE PROPERTY OF THE OWNER. TEMPORARY GRAVEL SHALL BE CONSIDERED INCIDENTAL TO CONTRACT.
- 9 CONTRACTOR SHALL COORDINATE THE OPERATION OF EXISTING PIPELINES, VALVES, AND HYDRANTS WITH CITY PERSONNEL. CREAT CARE MUST BE USED IN OPERATING VALVES AND HYDRANTS ON THE EXISTING WATER SYSTEM (DUE TO AGE AND CONDITION). ANY MAIN BREAKS CAUSED BY CONTRACTOR WILL BE CORRECTED AND PAID FOR BY CONTRACTOR INCIDENTAL TO CONTRACT.

GENERAL NOTES

PREPARED BY ...IG

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CITY OF BEACH BEACH, ND APPROVED BY: EL ROJECT NO: 05066-2022-001 SHEET DESIGNATOR: ATE: NOVEMBER 2024

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± ABS	- PLUS / MINUS	MIN. MNDOT	- MINIMUM - MINNESOTA DEPARTMENT OF TRANSPORTATION	
ACI	- ACRYLONITRILE-BUTADIENE-STYRENE - AMERICAN CONCRETE INSTITUTE	MINDOT	- MINNESOTA DEPARTMENT OF TRANSPORTATION	CIVIL UTILITY LEGEND
ACP	- ASBESTOS CEMENT PIPE	MTR.	- METER	EXISTING PROPOSED
ADD'L	- ADDITIONAL	N.	- NORTH	
ADDM. ADJ.	- ADDENDUM - ADJUSTABLE	N-S NA	- NORTH TO SOUTH - NOT APPLICABLE	0 0
AGGR.	- AGGREGATE	NDDOT	- NORTH DAKOTA DEPARTMENT OF TRANSPORTATION	i i i i i i i i i i i i i i i i i i i
ALT.	- ALTERNATE	NPT	- NIPPLE	
APPR.	- APPROACH - APPROXIMATE	NTS	- NOT TO SCALE	• •
APPROX. APPURT.	- APPROXIMATE - APPURTENANCE	0.C. 0.D.	- ON CENTER - OUTSIDE DIAMETER	• •
ARCH.	- ARCHITECT or ARCHITECTURAL	OH.	- OVERHEAD	••••
AR MH	- AIR RELEASE MANHOLE	OPNG.	- OPENING	• •
ARV ASSY.	- AIR RELEASE VALVE - ASSEMBLY	OSHA PC	- OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION - POINT OF CURVATURE	
ASTM	- AMERICAN SOCIETY FOR TESTING MATERIALS	PC	- PRECAST	Ø Ø
AVE	- AVENUE	P.C.C.	- PORTLAND CEMENT CONCRETE	
AVV	- AIR / VACUUM VALVE	PE	- POLYETHYLENE	
BFV BITUM.	- BUTTERFLY VALVE - BITUMINOUS	PE or P.E. PEP	- PLAIN END - POLYETHYLENE PIPE	
BL BL	- BUILDING LINE	PI	- POINT OF INTERSECTION	A
BLDG.	- BUILDING	PO	- PUSH ON	æ
BLK.	- BLOCK	POLY		C
B.O. BP	- BY OTHERS - BEGINNING OF PROJECT	PRV PSI	- PRESSURE REDUCING VALVE - POUNDS PER SQUARE INCH	L L
BRG.	- BEARING	PT	- POINT OF TANGENCY	# _
BSMT.	- BASEMENT	PLV	- PLUG VALVE	-
BVC	- BEGIN VERTICAL CURVE	PVC		
C-C C&G	- CENTER TO CENTER - CURB AND GUTTER	PVI R or RAD	- POINT OF VERTICAL INTERSECTION - RADIUS	T
CB	- CATCH BASIN	R.	- RISER	
CDF	- CONTROLLED DENSITY FILL	RCCP	- REINFORCED CONCRETE CYLINDER PIPE	TFO
CF CI	- CUBIC FEET - CAST IRON	RCP RDL	- REINFORCED CONCRETE PIPE	TFO
CIP	- CAST IRON - CAST IRON PIPE	RES	- ROOF DRAIN LINE - RESERVOIR	C
C.I.P.	- CAST IN PLACE	REQ'D.	- REQUIRED	MDU
CJ	- CONSTRUCTION JOINT		- REQUIREMENTS	— X—G —X——
CL CMP	- CENTERLINE	RJ S.	- RESTRAINED JOINT - SOUTH	UGE
CO	- CORRUGATED METAL PIPE - CLEANOUT	S-N	- SOUTH - SOUTH TO NORTH	OHE
CONC.	- CONCRETE	SAN	- SANITARY	• •
CONSTR.	- CONSTRUCTION	SCH.	- SCHEDULE	C
CONT. CNTRL.	- CONTINUOUS - CONTROL	SD SECT.	- STORM DRAIN - SECTION	* *
CSP	- CORRUGATED STEEL PIPE	SF	- SQUARE FEET	
CSV	- CURB STOP VALVE	SIM.	- SIMILAR	•
CTR	- CENTER	SS	- SANITARY SEWER	•
CU CY	- COPPER - CUBIC YARD	SSSL ST	- SANITARY SEWER SERVICE LEAD - STREET	<u> </u>
DEPR.	- DEPRESSION	STA	- STATION	
DTL	- DETAIL	STD.	- STANDARD	
DI or D.I.	- DUCTILE IRON	STL.	- STEEL	
DIA. DIM.	- DIAMETER - DIMENSION	STN. STL. STR.	- STAINLESS STEEL - STRUCTURAL	
DIP	- DUCTILE IRON PIPE	STRUCT	- STRUCTURAL	
DIST.	- DISTANCE	SUP.	- SUPPORT	
DR DRWY	- DRIVE - DRIVEWAY	SWPP SY	- STORM WATER POLLUTION PROTECTION - SQUARE YARD	
DWG.	- DRAWING	TEMP.	- TEMPORARY	
E.	- EAST	THK.	- THICK	
E-W	- EAST TO WEST	TOC	- TOP OF CASTING	
EA. E.F.	- EACH - EACH FACE	T.O.P. TOS	- TOP OF PIPE - TOP OF STEEL	
EJ	- EXPANSION JOINT	TYP.	- TYPICAL	
ELEC.	- ELECTRICAL	UON	- UNLESS OTHERWISE NOTED	
ELEV.	- ELEVATION	USACE	- U.S. ARMY CORPS OF ENGINEERS	
EP EQ.	- END OF PROJECT - EQUAL	VCP VERT.	- VITRIFIED CLAY PIPE - VERTICAL	
EVC	- END VERTICAL CURVE	W.	- WEST	
E.W.	- EACH WAY	W-E	- WEST TO EAST	
EXIST. EXP.	- EXISTING - EXPANSION	W/ W/O	- WITH - WITHOUT	
EAP. FDN.	- FOUNDATION	WM	- WATERMAIN	
FIN.	- FINISH	WRF	- WATER RECLAMATION FACILITY	
FL	- FLOW LINE OR FLANGE	WSL	- WATER SERVICE LEAD	DETAIL NUMBER —
FLR. FM	- FLOOR - FORCE MAIN	WTF WTP	- WATER TREATMENT FACILITY - WATER TREATMENT PLANT	
FM FRP	- FORCE MAIN - FIBERGLASS REINFORCED PLASTIC	WIP	- WATER TREATMENT PLANT - WELDED WIRE FABRIC	
FT.	- FOOT	WWTP	- WASTE WATER TREATMENT PLANT	
G&S	- GROOVE AND SHOULDER			SHEET WHERE DRAWN —
GA. GALV.	- GAGE - GALVANIZED			GRAPHIC SCALE
GR.	- GRADE			C.U. THO COMEL
GRD.	- GROUND			
GV	- GATE VALVE			DETAIL NUMBER —
H HDD	- HATCH - HORIZONTAL DIRECTIONAL DRILLING			
	- HIGH DENSITY POLYETHYLENE			
HDPE	- HORIZONTAL			
HORZ.	- HANDRAIL			SHEET WHERE DRAWN
Horz. Hr.				SHEET WHERE DETAIL IS CALLED
Horz. Hr. Ht.	- HEIGHT - HYDRANT			
HORZ. HR. HT. HYD	- HEIGHT - HYDRANT - INSIDE DIAMETER			FROM (EVERY OCCURRENCE)
Horz. Hr. Ht. Hyd I.d. I.e.	- HYDRANT - INSIDE DIAMETER - INVERT ELEVATION			FROM (EVERY OCCURRENCE)
Horz. Hr. Ht. Hyd I.D. I.E. IN.	- HYDRANT - INSIDE DIAMETER - INVERT ELEVATION - INCH			
I.D. I.E. IN. INSUL	- HYDRANT - INSIDE DIAMETER - INVERT ELEVATION - INCH - INSULATION			DETAIL NUMBER
HORZ. HR. HT. HYD I.D. I.E. IN. INSUL	- HYDRANT - INSIDE DIAMETER - INVERT ELEVATION - INCH			
HORZ. HR. HT. HYD I.D. I.E. IN. INSUL INV.	- HYDRANT - INSIDE DIAMETER - INVERT ELEVATION - INCH - INSULATION - INVERT - JOINT - RATE OF CURVATURE			
HORZ. HR. HT. HYD I.D. I.E. IN. INSUL INSUL INV. JT.	- HYDRANT - INSIDE DIAMETER - INVERT ELEVATION - INCH - INSULATION - INVERT - JOINT			

BOUNDARY LEGEND

	SECTION LINE
	PROPERTY BOUNDARY
	PROPERTY LINE / LOT LINE
	- EASEMENT LINE
	- RIGHT-OF-WAY
P/E	PERMANENT EASEMENT
C/E	CONSTRUCTION EASEMENT

JTILITY LEGEND

PROPOSE	
– – > – s	S- SANITARY SEWER
— —>— SSFA	SANITARY SEWER FORCEMAIN
•	SANITARY MANHOLE
۹	SANITARY CLEANOUT
	D STORM DRAIN PIPE
	AREA INLET
۲	BEEHIVE INLET
	CURB INLET
•	STORM MANHOLE
<	FES OUTFALL
w	WATER LINE
۲	CURB STOP
	GATE VALVE
4	FIRE HYDRANT
•	WATER CROSS
4	WATER TEE
4	WATER FITTING
C	WATER CAP
0	WATER COUPLING
H	WATER REDUCER
-8-	SADDLE
_	CABLE TV LINE
	CABLE TV PEDESTAL
_	TELEPHONE LINE
	TELEPHONE PEDESTAL
_	FIBER OPTIC LINE
	FIBER OPTIC PEDESTAL
_	COMMUNICATIONS LINE
_	GAS LINE
_	GAS LINE-ABANDONED
_	ELECTRIC, UNDERGROUND
_	ELECTRIC, OVERHEAD
	ELECTRIC UTILITY POLE
	ELECTRIC BOX
	ELECTRIC GUY
	ELECTRIC LIGHT
	MAILBOX
	UNKNOWN MANHOLE
	UNKNOWN VALVE
	SIGN

CIVIL TOPOGRAPHIC LEGEND

EXISTING	PROPOSED	
		- BUILDING
——Х———	x	- FENCE, BARBEI
——XX———	—xx—	- FENCE, WOVEN
o		- FENCE, CHAINL
	=	- FENCE, WOOD
	_••	- FENCE, VINYL
\sim		TREE - GROUP
		TREE - CONIFEI
6		TREE - DECIDU
0		SHRUB / BUSH
-		SIGN
17		MILE POST
		BORE HOLE
⊞ _{nw}		RIGHT-OF-WAY
	900	- CONTOUR - IND
		- CONTOUR - INT

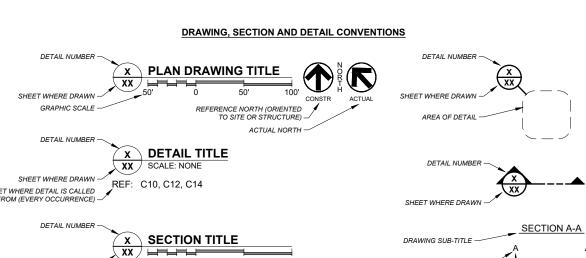
CIVIL SURFACE LEGEND EXISTING PROPOSED CONCRETE - USDA ELIGIBLE (BASE BID) GRAVEL BITUMINOUS PAVEMENT-CITY CONCRETE-CITY CONCRETE-REMOVED AND REPLACED WITH TOPSOIL

CIVIL DRAWING SYMBOLS

SECTION CUT WITHIN

SAME DETAIL DRAWING

	BREAKLINE (OBJECT CONT
~~ >	DIRECTION OF FLOW
1	EXISTING NOTES
$\langle 1 \rangle$	DEMOLITION NOTES
$\langle 1 \rangle$	CONSTRUCTION NOTES
	PIPING SCHEDULE ITEMS



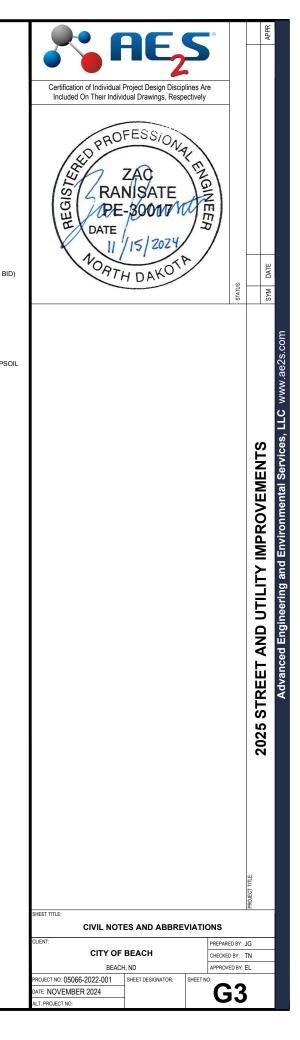
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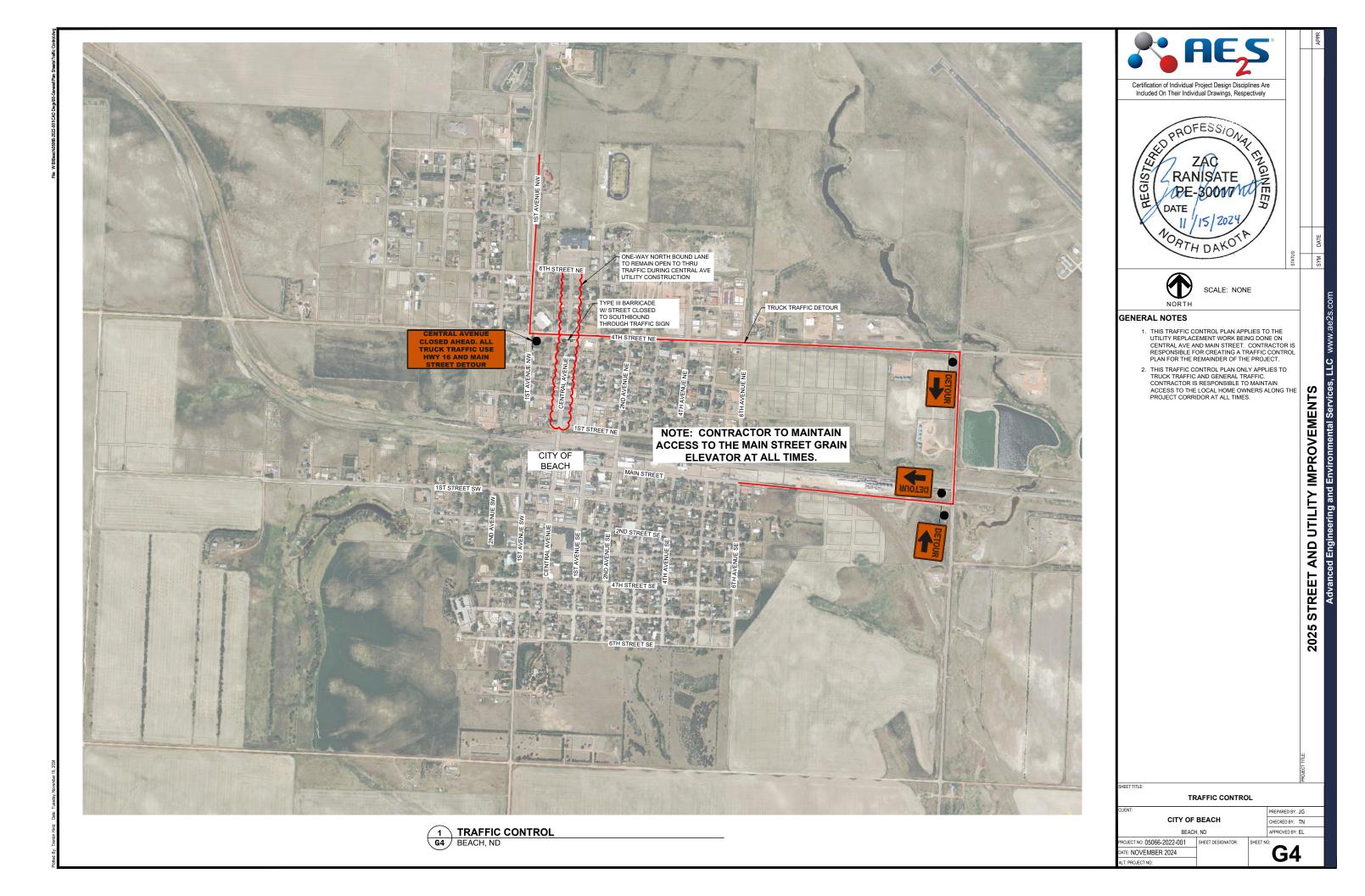
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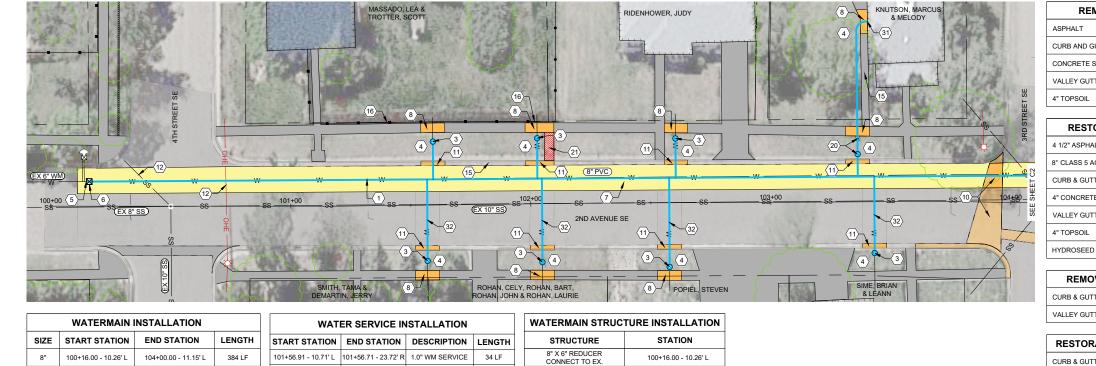
MONUMENT DEX ITERMEDIATE

BITUMINOUS PAVEMENT - USDA ELIGIBLE (BASE BID)

ITINUES, DRAWING ENDS)







STARTSTATION	END STATION	DESCRIPTION	LENGIH
101+56.91 - 10.71' L	101+56.71 - 23.72' R	1.0" WM SERVICE	34 LF
101+59.39 - 10.69' L	101+59.48 - 26.42' L	1.0" WM SERVICE	16 LF
102+02.83 - 10.44' L	102+02.93 - 27.31' L	1.0" WM SERVICE	17 LF
102+04.75 - 10.43' L	102+04.55 - 24.37' R	1.0" WM SERVICE	35 LF
102+57.64 - 10.38' L	102+57.70 - 26.73' R	1.0" WM SERVICE	37 LF
102+60.40 - 10.38' L	102+60.38 - 26.78' L	1.0" WM SERVICE	16 LF
103+36.30 - 10.49' L	103+40.59 - 75.08' L	1.0" WM SERVICE	68 LF
103+43.10 - 10.50' L	103+43.15 - 21.35' R	1.0" WM SERVICE	32 LF

WATERMAIN STRUCTURE INSTALLATION			
STRUCTURE	STATION		
8" X 6" REDUCER CONNECT TO EX.	100+16.00 - 10.26' L		
8" GATE VALVE & BOX	100+16.00 - 10.26' L		
8" GATE VALVE & BOX	100+16.00 - 10.26' L		

		STA. 100+50.00 RIM. 2794.69 10' INV. 2794.80 (N) 10' INV. 2784.91 (E) 4'' INV. 2784.31 (E) 4'' INV. 2786.21 (SW)				
2780				(EX SAN. SEWER)		
2790	1111/10/07/1///////////////////////////		7.5 MIN. COVE			
			Ξ 		 	
2800						_

MOVAL QUANTITIES				
449 SY				
82 LF				
366 SF				
71 SF				
92 SY				

ALT	449 SY
AGGREGATE BASE	449 SY
ITER	82 LF
TE SIDEWALK	319 SF
ITER	71 SF
	97 SY
כ	97 SY

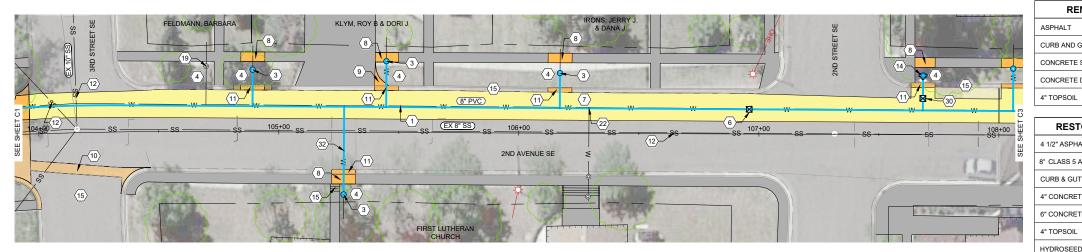
REMOVAL QUANTITIES-CITY

ITER	46 LF
ITER	302 SF

RESTORATION QUANTITIES-CITY

CURB & GUTTER	46 SF
VALLEY GUTTER	302 SF

						~	
	ification of Individual F			®		APPR	
Telose a	RAN DATE NORTH	ESSIONA ISATE 3001070 15/2024	ENGINEER			SYM DATE	
	NORTH	0 Scale	e in Fee	20 ≓ ⇒t			ae2s.com
CONS	TRUCTION NO	TES					WW.8
$\langle 1 \rangle$	PIPE. IF ABANDON	POSE OF EXISTING			Έ		≷ ບ
3	LINE. CONTRACTO EXISTING CURB S ARE SHOWN FOR CONTRACTOR TO	E AND REPLACE W OR SHALL REMOVE TOP. WATERMAIN REFERENCE ONLY FIELD LOCATE WA SERVICES THAT AR	AND DIS AND SEF AND TERMAII	SPOSE RVICES N AND		MPROVEMENTS	ring and Environmental Services, LLC www.ae2s.com
4		., GRADE, REPLACE DISTURBED AREAS				≥ >	nental
5		TALL ALL FITTINGS NECESSARY TO C MAIN.		гто		NO NO	'ironm
6	FURNISH AND INS DETAILS 4/C32 AN	TALL NEW 8" GATE D 4/C33.	VALVE.	SEE		Ξ	Ē
$\langle 7 \rangle$	REMOVE AND REP PAVEMENT. SEE I	PLACE EXISTING BI	TUMINO	JS		≿	and
8	REMOVE AND REP SIDEWALK. SEE D	PLACE EXISTING CO ETAIL 3/C34.	DNCRETI	E			
(10)	REMOVE AND REP VALLEY GUTTER.	PLACE EXISTING CO SEE DETAIL 4/C34.	DNCRETI	E		5	inee
$\langle 11 \rangle$	REMOVE AND REP GUTTER. SEE DE	PLACE EXISTING CU TAIL 5/C35.	JRB AND)		2 Z	Eng
(12)	CONTRACTOR SHA	ALL PROTECT ALL	EXISTIN	G		∢	ced
(15)	SIDEWALKS AND D	ALL PROTECT CUR DRIVEWAYS EXCEP GNATED. ANY DAN CONTRACTORS E	PT WHER	RE IALL BE		REE	Advanced Enginee
(16)		G FENCE. ANY DA CONTRACTORS E			=	STRI	
20	SERVICE LINE. CO	ALL REMOVE EXIS DNTRACTOR SHALI LINE FROM MAIN TO	INSTAL	L NEW		2025	
(21)	REMOVE AND DISP REPLACE WITH TO	POSE EXISTING CO POSE EXISTING CO PSOIL AND HYDRO S. SEE DETAIL 1/C	DSEED A				
31	NEW SERVICE LIN METER INSIDE THI COORDINATE WIT PERMISSION PRIO	E SHALL TIE INTO E HOUSE. CONTRA H THE HOMEOWNE R TO ACCESSING CESSARY PLUMBIN	THE EXIS CTOR SI R AND F THEIR PI	HALL RECEIVE ROPERT			
32	NEW SERVICE LIN TRENCHLESS MET	E SHALL BE INSTAI THOD.	LLED US	ING THE	=		
					PROJECT TITLE:		
SHEET TITLE:		IUE SE - 4TH ST	REET S	SE .	PRC		
CLIENT:		3RD STREET S		REPARED	BY: TH		
	CITY OF BEACH		- H	HECKED B			
	05066-2022-001	SHEET DESIGNATOR:	A SHEET NO:		ZK		
DATE: NOV ALT. PROJEC	EMBER 2024 T NO:	CIV		' ت			
							_



WATER SERVICE INSTALLATION

START STATION END STATION DESCRIPTION

104+88.99 - 10.67' L 104+89.01 - 25.85' L 1.0" WM SERVICE

105+27.18 - 10.60' L 105+27.12 - 25.95' R 1.0" WM SERVICE

105+44.67 - 10.58' L 105+44.70 - 29.62' L 1.0" WM SERVICE

106+17.02 - 10.46' L 106+17.04 - 25.03' L 1.0" WM SERVICE

	WATERMAIN STRUCTURE INSTALLATION			
LENGTH	STRUCTURE	STATION		
15 LF	8" GATE VALVE & BOX	106+95.96 - 10.30' L		
37 LF	8" X 6" TEE	107+68.28 - 10.10' L		
19 LF	6" GATE VALVE & BOX	107+68.27 - 15.10' L		
15 LF	6" HYDRANT	107+68.32 - 24.65' L		

WATERMAIN INSTALLATION					
SIZE	START STATION	END STATION	LENGTH		
8"	104+00.00 - 11.15' L	108+00.00 - 10.01' L	400 LF		
6"	107+68.28 - 10.10' L	107+68.32 - 24.65' L	15 LF		

2800			EXISTING GRA					
				F				
					+			
						$ \land \land$		
		 						·
		<u>v</u>						
2790		 ጃ ما		(8" PVC)				
2/90		¢°,	****		2			
			Action 1					
			(EX SAN, SEWER)					Harm
2780								
	8 (S (N (S						<u> </u>	
	783.1 783.1 783.7 783.7 783.7	 					3.12.224 8.6.88	
		 					RIM.2797.24 RIM.2797.24 8" NN:27788.82 (S) 8" INY:2788.82 (S) 8" INY:2788.82 (S)	
						S		
2770 EG EL		795.44		07.57	279	ن ا	w 🖾 💩	2

	507 SY
GUTTER	50 LF
SIDEWALK	192 SF
DRIVEWAY	18 SF
	53 SY

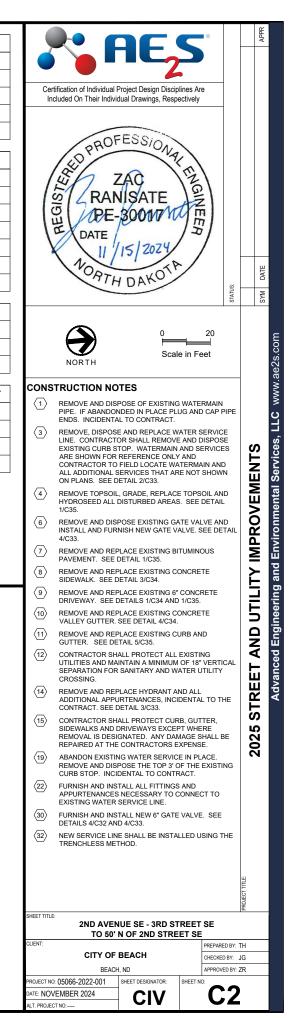
RESTORATION QUANTITIES

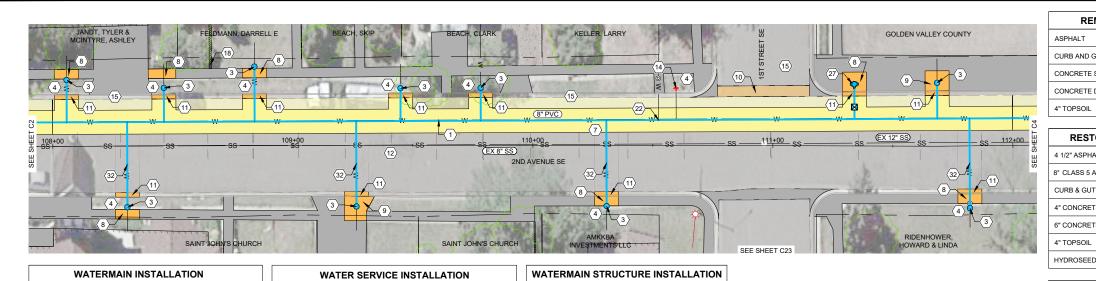
4 1/2" ASPHALT	507 SY
8" CLASS 5 AGGREGATE BASE	507 SY
CURB & GUTTER	50 LF
4" CONCRETE SIDEWALK	192 SF
6" CONCRETE DRIVEWAY	18 SF
4" TOPSOIL	53 SY
HYDROSEED	53 SY

REMOVAL QUANTITIES-CITY

ASPHALT	13 SY
CURB & GUTTER	6 LF
VALLEY GUTTER	168 SF

4 1/2" ASPHALT	13 SY
8" CLASS 5 AGGREGATE BASE	13 SY
CURB AND GUTTER	16 LF
VALLEY GUTTER	168 SF





18 LF

35 L F

14 LF

23 LF

36 LF

14 LF

14 LF

36 LF

15 LF

37 LF

STRUCTURE

8" X 6" TEE

6" GATE VALVE & BOX

6" HYDRANT

STATION

111+33.97 - 11.18' L

111+33.92 - 16.18' L

111+33.83 - 25.76' L

SIZE START STATION

108+00.00 - 10.01' L

111+33.97 - 11.18' L

8"

6"

END STATION

112+00.00 - 11.34' I

111+33.83 - 25.76' L

LENGTH

400 LF

15 LF

START STATION END STATION DESCRIPTION LENGTH

108+05.85 - 10.00' L 108+05.90 - 27.65' L 1.0" WM SERVICE

108+31.00 - 9.92' L 108+30.90 - 25.56' R 1.0" WM SERVICE

108+46.38 - 9.88' L 108+46.42 - 24.06' L 1.0" WM SERVICE

108+84.07 - 9.89' L 108+83.98 - 32.78' L 1.0" WM SERVICE

109+26.37 - 10.05' L 109+26.51 - 25.48' R 1.0" WM SERVICE

109+44.89 - 10.13' L 109+44.83 - 23.80' L 1.0" WM SERVICE

109+78.30 - 10.26' L 109+78.24 - 23.94' L 1.0" WM SERVICE

110+30.61 - 10.47' L 110+30.75 - 25.28' R 1.0" WM SERVICE

111+68.62 - 11.50' L 111+68.69 - 26.40' L 1.0" WM SERVICE

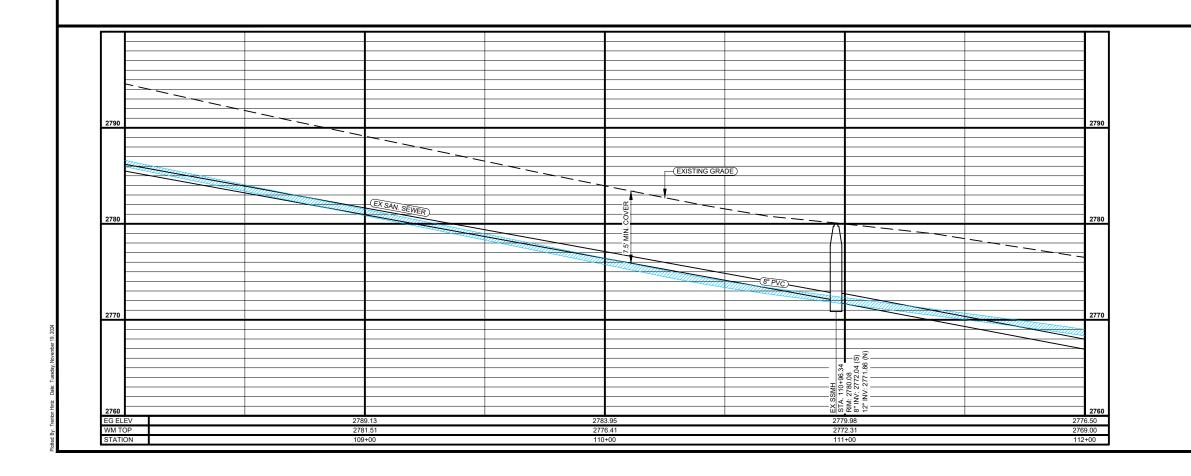
111+82.02 - 11.43' L 111+81.83 - 25.95' R 1.0" WM SERVICE

REMO	
ASPHALT	

VALLEY GUT

4 1/2" ASPH

VALLEY GU



REMOVAL	QUANTITIES

	480 SY
GUTTER	110 LF
SIDEWALK	326 SF
DRIVEWAY	185 SF
	71 SY

RESTORATION QUANTITIES

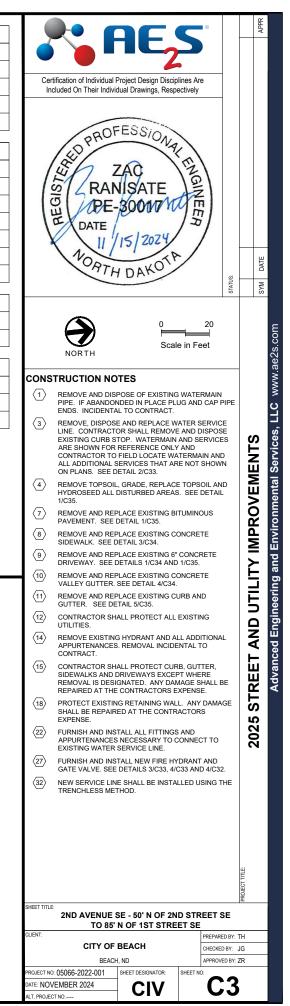
ALT	480 SY
AGGREGATE BASE	480 SY
ITER	110 LF
TE SIDEWALK	326 SF
E DRIVEWAY	185 SF
	71 SY
)	71 SY

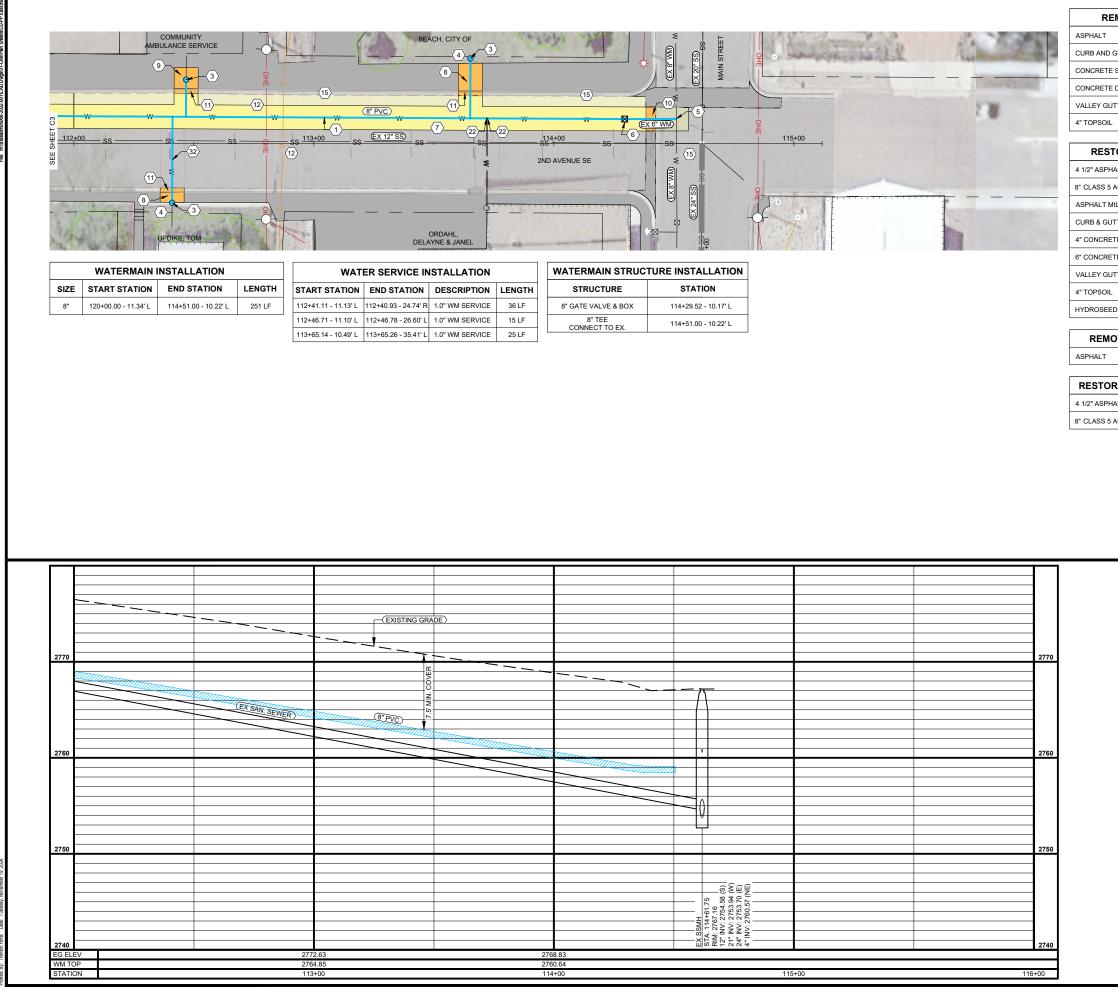
OVAL QUANTITIES-CITY

	168 SY
TTER	172 SF

RATION QUANTITIES-CITY

ALT	168 SY	
AGGREGATE BASE	168 SY	
TTER	172 SF	



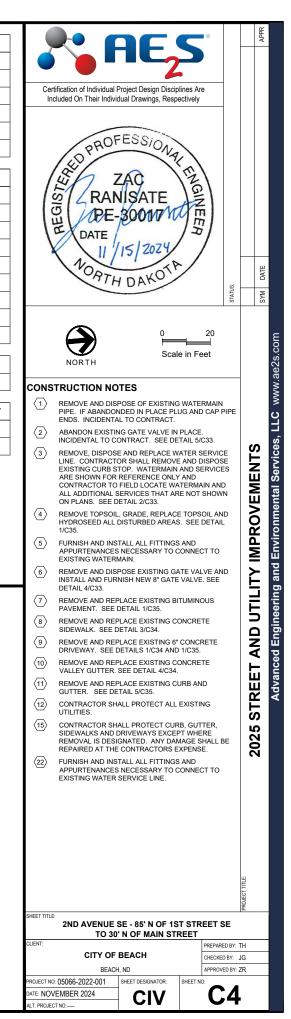


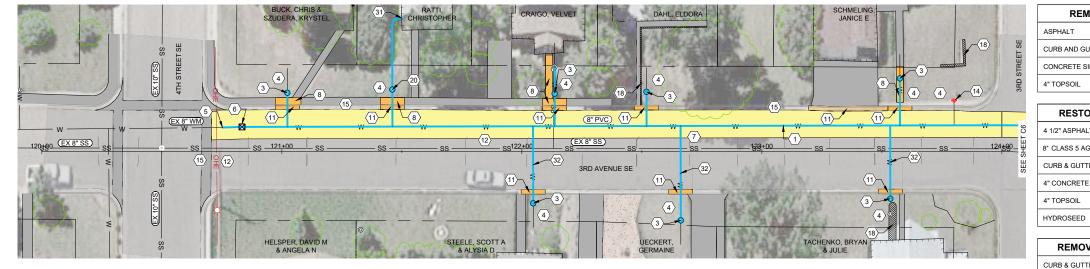
MOVAL QUANTITIES	
	290 SY
GUTTER	30 LF
SIDEWALK	156 SF
DRIVEWAY	87 SF
TTER	41 SF
	14 SY

ALT	275 SY
AGGREGATE BASE	275 SY
ILLINGS	15 SY
ITER	30 LF
TE SIDEWALK	156 SF
TE DRIVEWAY	87 SF
TTER	41 SF
	14 SY
D	14 SY

OVAL QUANTITIES-CITY	
	108 SY

RATION QUANTITIES-CITY	
ALT	108 SY
AGGREGATE BASE	108 SY

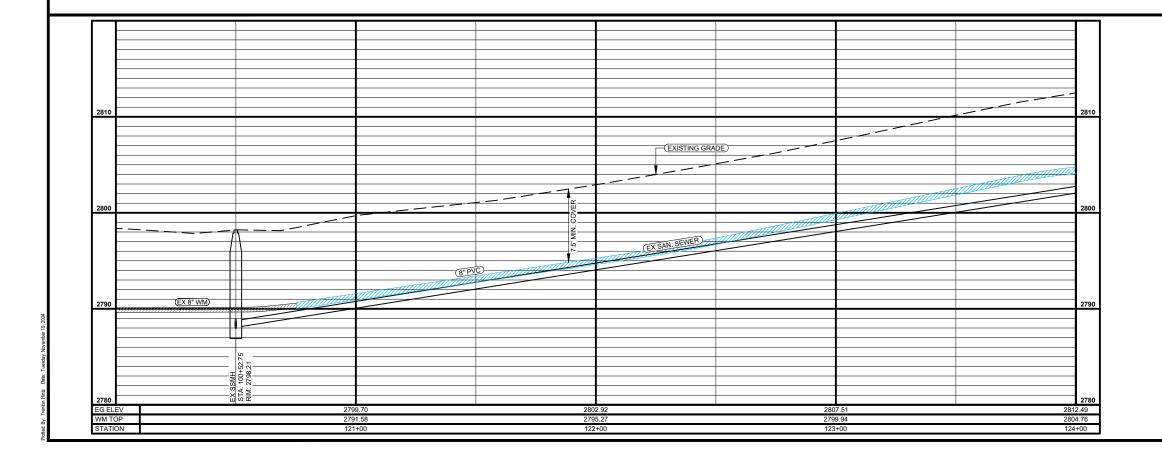




	WATERMAIN	NSTALLATION	
SIZE	START STATION	END STATION	LENGTH
8"	120+75.18 - 10.00' L	124+00.00 - 10.92' L	325 LF

WATER SERVICE INSTALLATION						
START STATION	END STATION	DESCRIPTION	LENGTH			
121+02.32 - 10.26' L	121+02.29 - 24.43' L	1.0" WM SERVICE	14 LF			
121+46.07 - 10.36' L	121+49.90 - 55.50' L	1.0" WM SERVICE	48 LF			
122+04.65 - 10.49' L	122+04.72 - 21.60' R	1.0" WM SERVICE	32 LF			
122+13.71 - 10.51' L	122+13.66 - 35.17' L	1.0" WM SERVICE	25 LF			
122+51.95 - 10.59' L	122+51.92 - 24.86' L	1.0" WM SERVICE	14 LF			
122+66.13 - 10.62' L	122+66.21 - 28.73' R	1.0" WM SERVICE	39 LF			
123+53.45 - 10.82' L	123+53.52 - 19.68' R	1.0" WM SERVICE	30 LF			
123+57.54 - 10.82' L	123+57.49 - 30.40' L	1.0" WM SERVICE	20 LF			

WATERMAIN STRUCTURE INSTALLATION					
STRUCTURE	STATION				
8" GATE VALVE & BOX CONNECT TO EX.	120+75.18 - 10.00' L				



AMOVAL QUANTITIES 426 SY GUTTER 80 LF	
	426 SY
GUTTER	80 LF
SIDEWALK	191 SF
	93 SY

ORATION QUANT	ITIES
ALT	426 SY

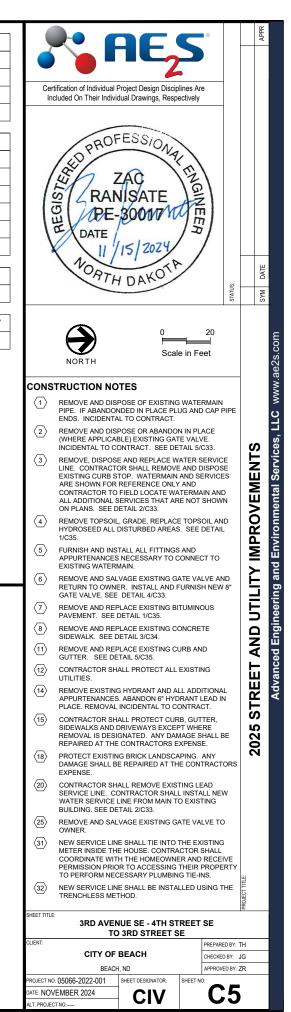
AL I	426 SY
AGGREGATE BASE	426 SY
GGREGATE BASE TER E SIDEWALK	80 LF
TER	191 SF
	93 SY
)	93 SY

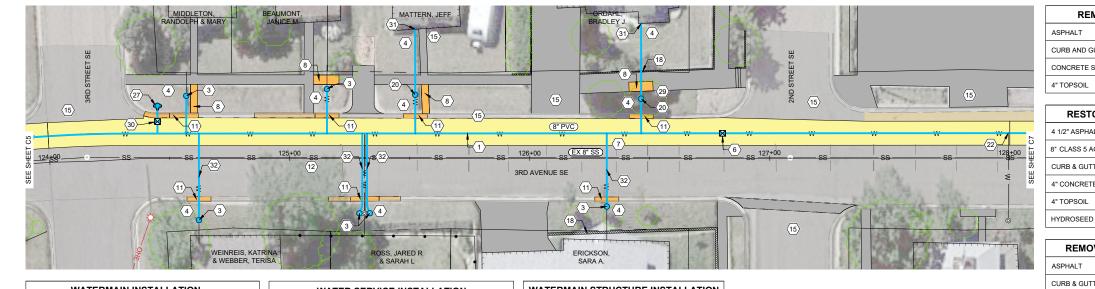
REMOVAL QUANTITIES-CITY

TER	

RESTORATION QUANTITIES-CITY	
CURB AND GUTTER	33 LF

33 LF





	WATERMAIN	INSTALLATION	
SIZE	START STATION	END STATION	LENGTH
8"	124+00.00 - 10.92' L	128+00.00 - 10.37' L	401 LF
6"	124+44.90 - 10.28' L	124+44.90 - 21.84' L	12 LF

WAT	ER SERVICE IN	ISTALLATION	
START STATION	END STATION	DESCRIPTION	LENGTH
124+56.90 - 10.29' L	124+56.89 - 25.98' L	1.0" WM SERVICE	16 LF
124+62.17 - 10.29' L	124+62.19 - 25.80' R	1.0" WM SERVICE	36 LF
125+15.53 - 10.32' L	125+15.52 - 28.84' L	1.0" WM SERVICE	19 LF
125+30.21 - 10.32' L	125+29.06 - 22.96' R	1.0" WM SERVICE	33 LF
125+32.21 - 10.32' L	125+33.39 - 22.89' R	1.0" WM SERVICE	33 LF
125+52.28 - 10.33' L	125+52.26 - 53.75' L	1.0" WM SERVICE	43 LF
126+32.08 - 10.37' L	126+32.10 - 20.14' R	1.0" WM SERVICE	31 LF
126+46.41 - 10.38' L	126+46.39 - 56.12' L	1.0" WM SERVICE	46 LF

WATERMAIN STRUC	TURE INSTALLATION			
STRUCTURE STATION				
8" X 6" TEE	124+44.90 - 10.28' L			
6" GATE VALVE & BOX	124+44.90 - 15.28' L			
6" HYDRANT	124+44.90 - 21.84' L			
8" GATE VALVE & BOX	126+80.31 - 10.39' L			

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			EXISTING GRA					
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2790								
		58					·	
							22	
		EX 55MH STA. 10442 RIM: 2812.6				EX SSMH STA. 107+2	2801	
						TA.S	WIN	
2780	i i							

MOVAL QUANTITI	ES

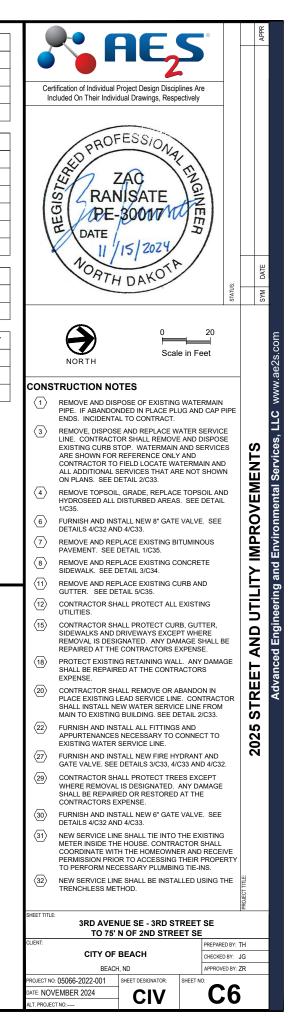
	490 SY
GUTTER	84 LF
SIDEWALK	154 SF
	93 SY

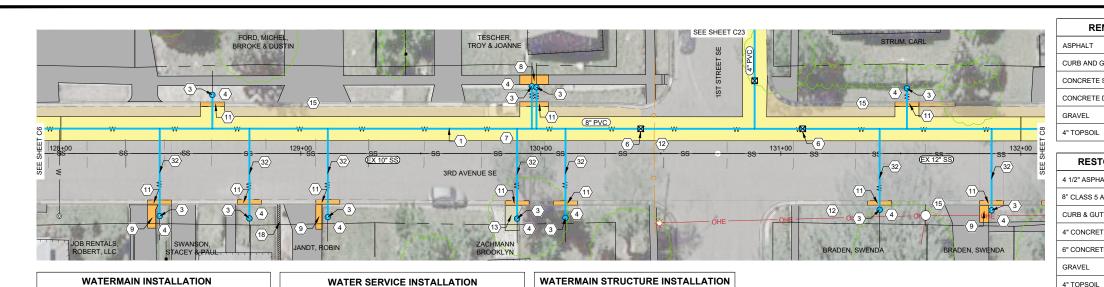
ALT	490 SY
AGGREGATE BASE	490 SY
TER	84 LF
E SIDEWALK	154 SF
	93 SY
)	93 SY

REMOVAL QUANTITIES-CITY

	25 SY
TER	43 LF

4 1/2" ASPHALT	25 SY
8" CLASS 5 AGGREGATE BASE	25 SY
CURB AND GUTTER	43 LF





36 LF

14 LF

37 LF

37 LF

37 LF

18 LF

17 LF

37 LF

34 LF

17 LF

34 LF

STRUCTURE

8" GATE VALVE & BOX

8" X 4" TEE

8" GATE VALVE & BOX

STATION

130+41.60 - 10.30' L

130+89.06 - 10.29' L

131+09.06 - 10.28' L

SIZE START STATION END STATION

132+00.00 - 10.25' L

128+00.00 - 10.37' L

8"

LENGTH

400 LF

START STATION END STATION DESCRIPTION LENGTH

128+41.20 - 10.36' L 128+41.19 - 26.11' R 1.0" WM SERVICE

128+63 13 - 10.35' L 128+63 13 - 24 43' L 1.0" WM SERVICE

128+78.59 - 10.34' L 128+78.58 - 27.05' R 1.0" WM SERVICE

129+11.24 - 10.34' L 129+11.23 - 26.54' R 1.0" WM SERVICE

129+90.11 - 10.31' L 129+90.10 - 27.16' R 1.0" WM SERVICE

129+96.24 - 10.31' L 129+96.25 - 27.98' L 1.0" WM SERVICE

129+98.15 - 10.31' L 129+98.16 - 27.57' L 1.0" WM SERVICE

130+10.25 - 10.31' L 130+10.24 - 26.79' R 1.0" WM SERVICE

131+41.16 - 10.27' L 131+41.15 - 23.44' R 1.0" WM SERVICE

131+52.52 - 10.27' L 131+52.52 - 27.15' L 1.0" WM SERVICE

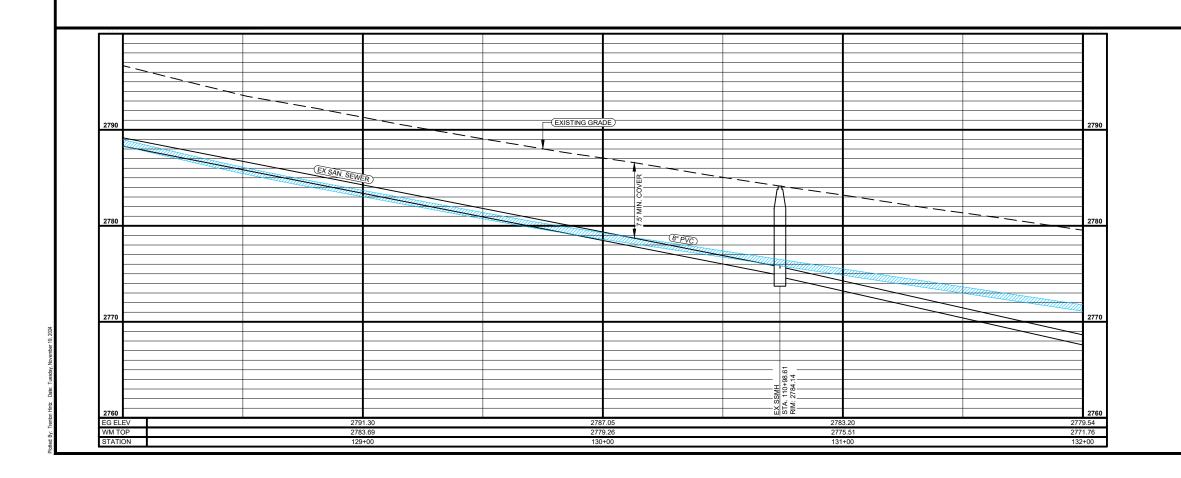
131+87.81 - 10.26' L 131+87.80 - 23.68' R 1.0" WM SERVICE

REM

ASPHALT CURB & GUT

4 1/2" ASPH 8" CLASS 5 A

CURB AND



MOVAL QUANTITIES	
	460 SY
GUTTER	100 LF
SIDEWALK	48 SF
DRIVEWAY	88 SF
	63 SF
	85 SY

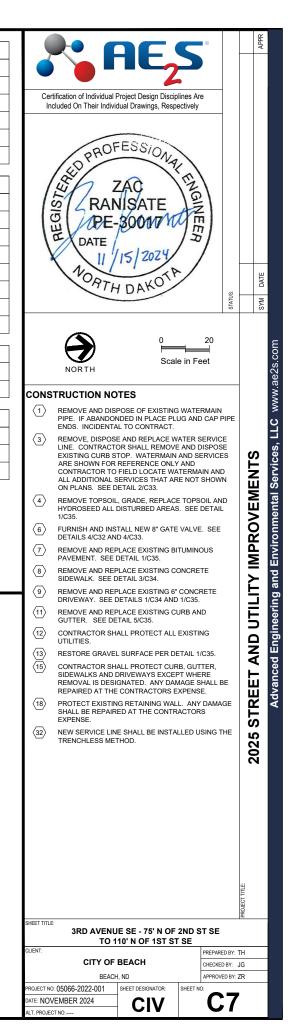
RESTORATION QUANTITIES

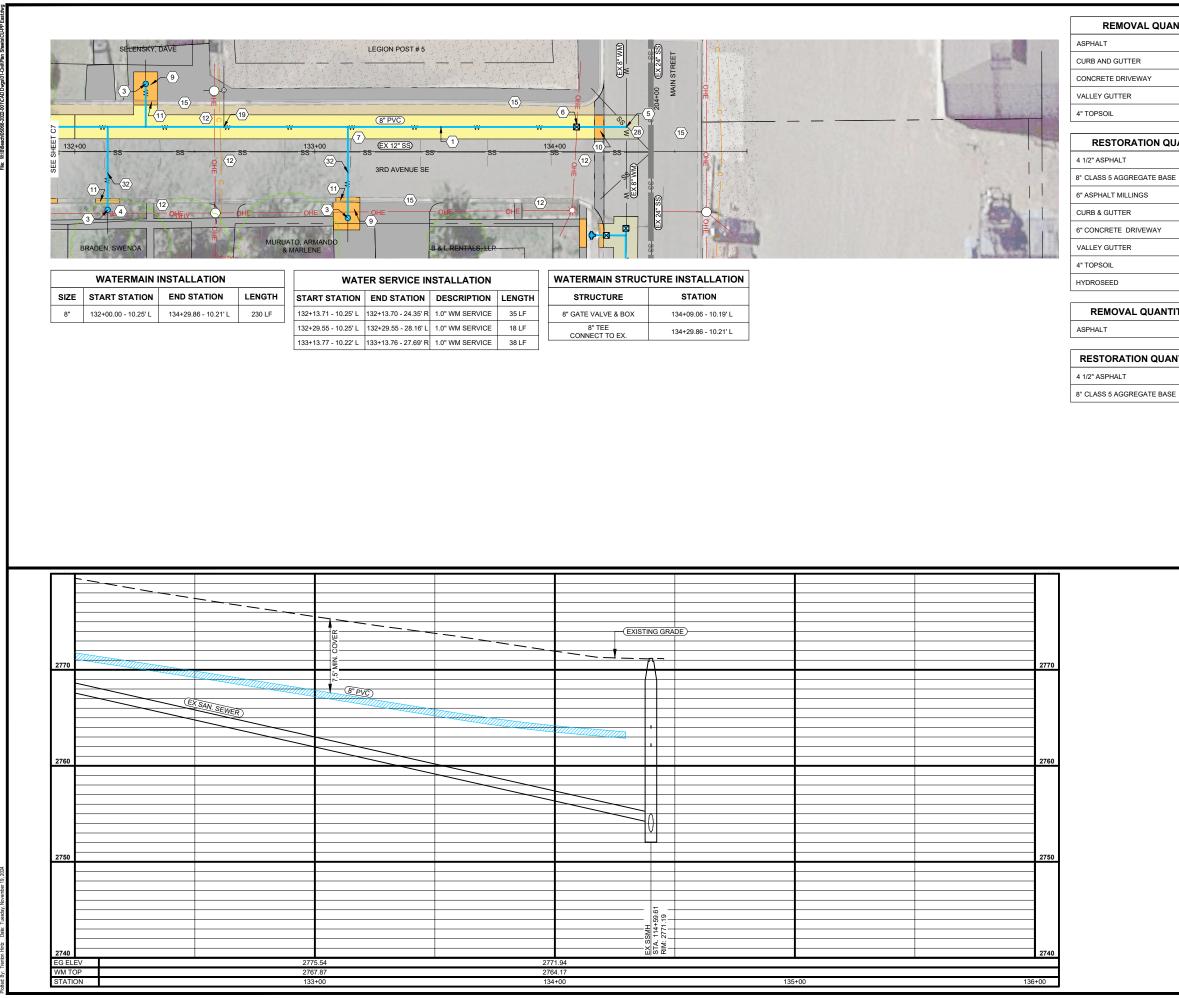
4 1/2" ASPHALT	460 SY
8" CLASS 5 AGGREGATE BASE	460 SY
CURB & GUTTER	100 LF
4" CONCRETE SIDEWALK	48 SF
6" CONCRETE DRIVEWAY	88 SF
GRAVEL	63 SF
4" TOPSOIL	85 SY
HYDROSEED	85 SY

OVAL QUANTITIES-CITY

	152 SY
ITER	15 LF

ALT	152 SY
AGGREGATE BASE	152 SY
GUTTER	15 LF



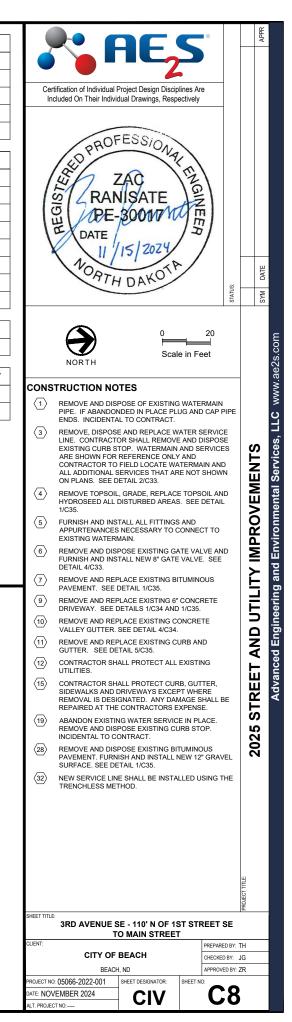


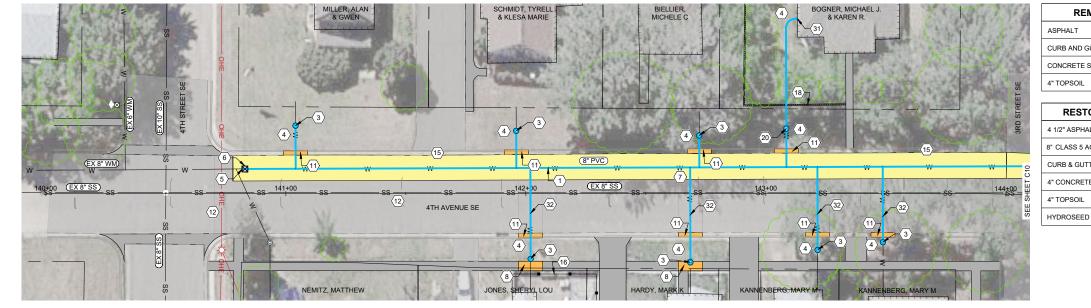
MOVAL QUANTITIES	
	261 SY
GUTTER	30 LF
DRIVEWAY	247 SF
TTER	40 SF
	7 SY

ALT	245 SY
AGGREGATE BASE	245 SY
MILLINGS	144 SF
ITER	30 LF
TE DRIVEWAY	247 SF
TTER	40 SF
	7 SY
C	7 SY

OVAL QUANTITIES	-CITY
	94 SY

RATION QUANTITIES-CITY		
IALT	94 SY	
AGGREGATE BASE	94 SY	

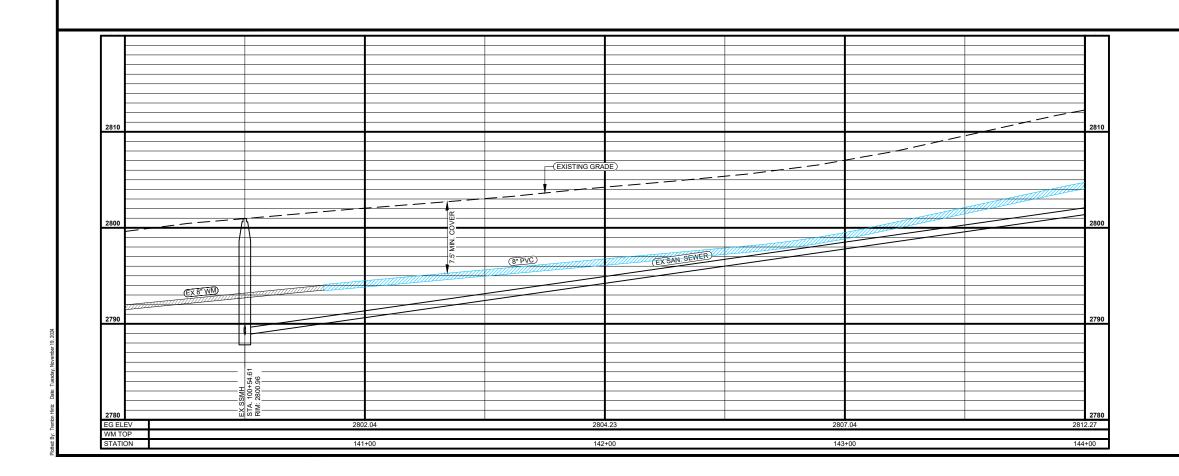




	WATERMAIN	NSTALLATION	
SIZE	START STATION	END STATION	LENGTH
8"	140+82.94 - 10.25' L	144+00.00 - 11.56' L	317 LF

WATER SERVICE INSTALLATION			
START STATION	END STATION	DESCRIPTION	LENGTH
141+04.10 - 10.33' L	141+04.04 - 28.28' L	1.0" WM SERVICE	18 LF
141+96.02 - 10.68' L	141+95.97 - 26.13' L	1.0" WM SERVICE	15 LF
142+01.86 - 10.67' L	142+01.99 - 27.23' R	1.0" WM SERVICE	38 LF
142+68.42 - 10.90' L	142+68.56 - 28.66' R	1.0" WM SERVICE	40 LF
142+72.27 - 10.93' L	142+72.23 - 24.19' L	1.0" WM SERVICE	13 LF
143+08.56 - 11.05' L	143+13.15 - 72.81' L	1.0" WM SERVICE	65 LF
143+21.44 - 11.10' L	143+21.56 - 23.45' L	1.0" WM SERVICE	35 LF
143+48.68 - 11.19' L	143+48.79 - 20.26' R	1.0" WM SERVICE	31 LF

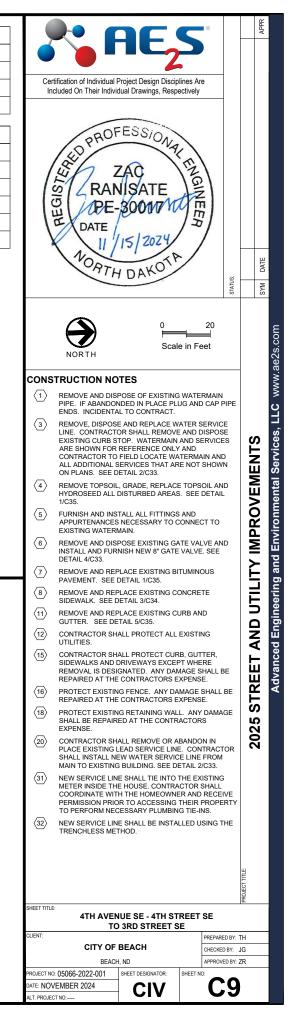
WATERMAIN STRUCTURE INSTALLATION	
STRUCTURE	STATION
CONNECT TO EX.	140+75.37 - 10.23' L
8" GATE VALVE & BOX	140+80.37 - 10.25' L

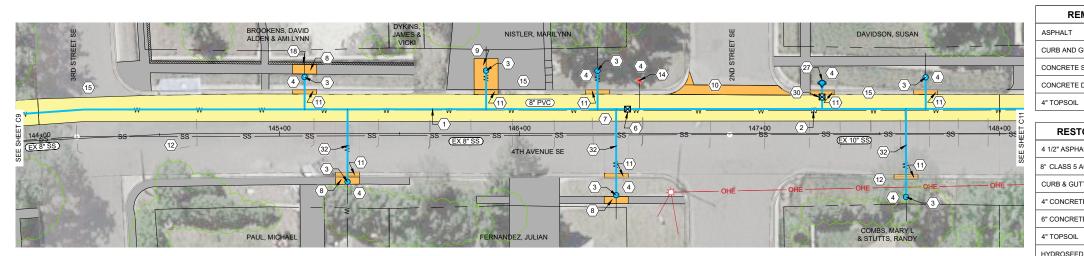


MOVAL QUANTITIES		
	383 SY	

GUTTER	80 LF
SIDEWALK	80 SF
	103 SY

ALT	383 SY
AGGREGATE BASE	383 SY
TER	80 LF
E SIDEWALK	80 SF
	103 SY
)	103 SY





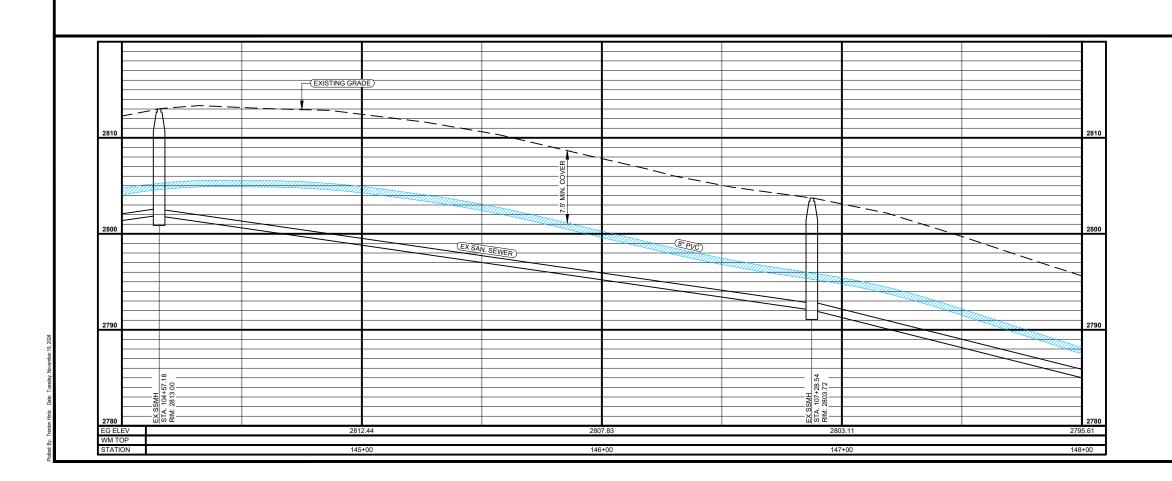
WATERMAIN INSTALLATION			
SIZE	START STATION	END STATION	LENGTH
8"	144+00.00 - 11.56' L	148+00.00 - 10.27' L	401 LF
6"	147+25.99 - 10.21' L	147+25.99 - 21.11' L	11 LF

WATER SERVICE INSTALLATION			
START STATION	END STATION	DESCRIPTION	LENGTH
145+10.38 - 10.05' L	145+10.37 - 23.49' L	1.0" WM SERVICE	13 LF
145+28.26 - 10.06' L	145+28.28 - 20.15' R	1.0" WM SERVICE	30 LF
145+86.00 - 10.10' L	145+85.99 - 26.18' L	1.0" WM SERVICE	16 LF
146+32.44 - 10.14' L	146+32.43 - 26.12' L	1.0" WM SERVICE	16 LF
146+40.17 - 10.15' L	146+40.20 - 25.71' R	1.0" WM SERVICE	36 LF
147+60.93 - 10.24' L	147+60.96 - 26.44' R	1.0" WM SERVICE	37 LF
147+69.15 - 10.24' L	147+69.14 - 23.43' L	1.0" WM SERVICE	13 LF

WATERMAIN STRUCTURE INSTALLATION	
STRUCTURE	STATION
8" GATE VALVE & BOX	146+44.95 - 10.15' L
8" X 6" TEE	147+25.99 - 10.21' L
6" GATE VALVE & BOX	147+25.99 - 15.21' L
6" HYDRANT	147+25.99 - 21.11' L

REMO
VALLEY GU





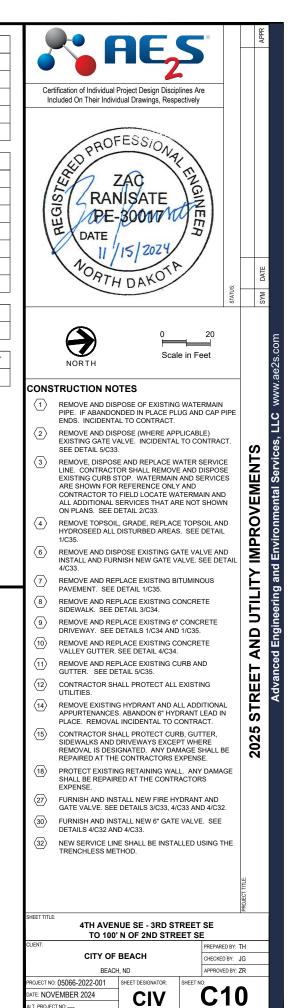
REMOVAL QUANTITIES		
ALT.	491 SY	
AND GUTTER	80 LF	
RETE SIDEWALK	100 SF	
RETE DRIVEWAY	129 SF	
SOIL	79 SY	

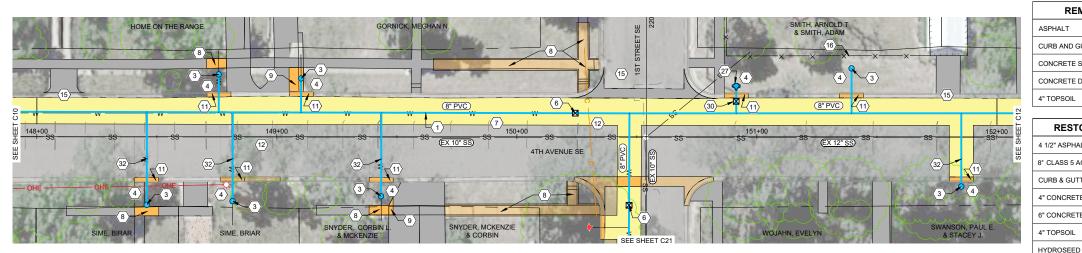
ALT	491 SY
AGGREGATE BASE	491 SY
ITER	80 LF
TE SIDEWALK	100 SF
E DRIVEWAY	129 SF
	79 SY
)	79 SY

VAL QUANTITIES-CITY		
TTER	187 SE	

IER	107 SF

RESTORATION QUANTITIES-CITY		
VALLEY GUTTER	187 SF	



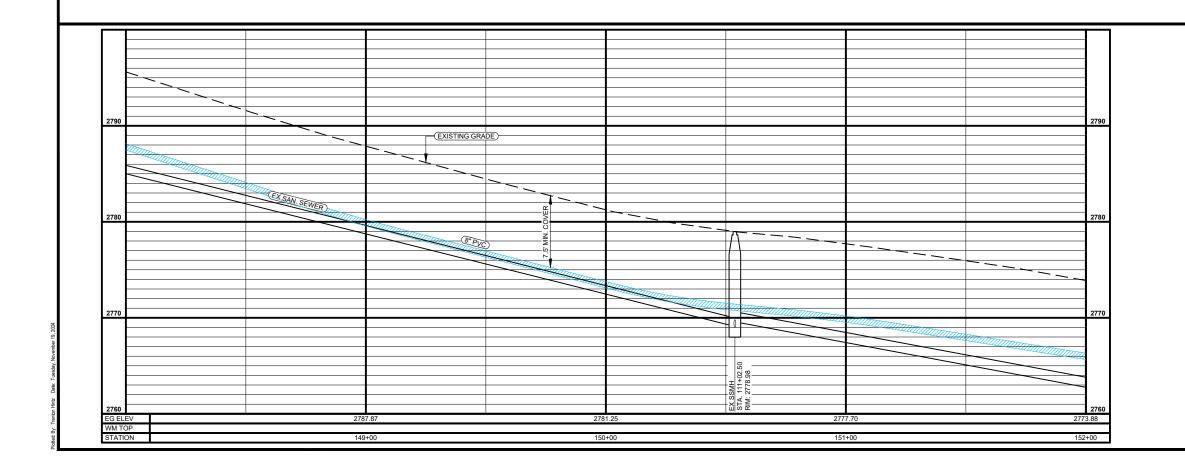


WATERMAIN INSTALLATION			
SIZE	START STATION	END STATION	LENGTH
8"	148+00.00 - 10.27' L	152+00.00 - 9.81' L	400 LF
6"	150+91.38 - 9.72' L	150+91.37 - 21.14' L	11 LF

WATER SERVICE INSTALLATION				
ST	ART STATION	END STATION	DESCRIPTION	LENGTH
14	8+45.89 - 10.21' L	148+45.79 - 28.41' R	1.0" WM SERVICE	39 LF
14	8+75.77 - 10.14' L	148+75.81 - 25.92' L	1.0" WM SERVICE	16 LF
14	8+81.63 - 10.12' L	148+81.53 - 26.88' R	1.0" WM SERVICE	37 LF
14	9+10.07 - 10.05' L	149+10.11 - 24.21' L	1.0" WM SERVICE	14 LF
14	9+43.53 - 9.97' L	149+43.44 - 24.88' R	1.0" WM SERVICE	35 LF
15	51+39.43 - 9.76' L	151+39.42 - 28.45' L	1.0" WM SERVICE	19 LF
15	51+85.14 - 9.80' L	151+85.16 - 20.74' R	1.0" WM SERVICE	31 LF

WATERMAIN STRUCTURE INSTALLATION		
STRUCTURE STATION		
8" GATE VALVE & BOX	150+24.31 - 9.76' L	
8" X 8" TEE	150+46.91 - 9.70' L	
8" X 6" TEE	150+91.38 - 9.72' L	
6" GATE VALVE & BOX	150+91.37 - 14.72' L	
6" HYDRANT	150+91.37 - 21.14' L	

CURB AND C



REMOVAL	QUANTITIES

	551 SY
GUTTER	80 LF
SIDEWALK	104 SF
DRIVEWAY	70 SF
	83 SY

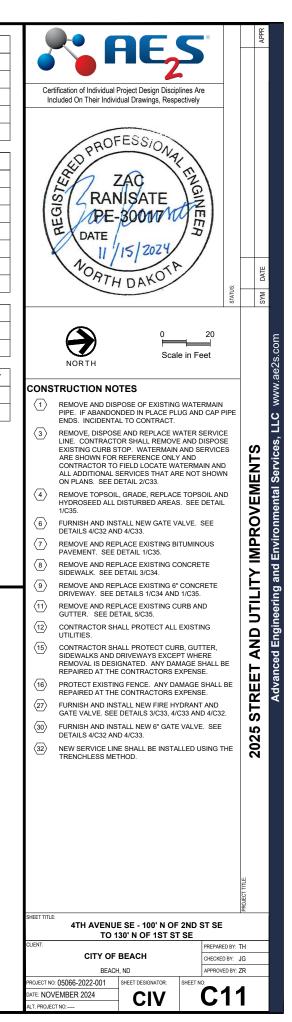
RESTORATION QUANTITIES

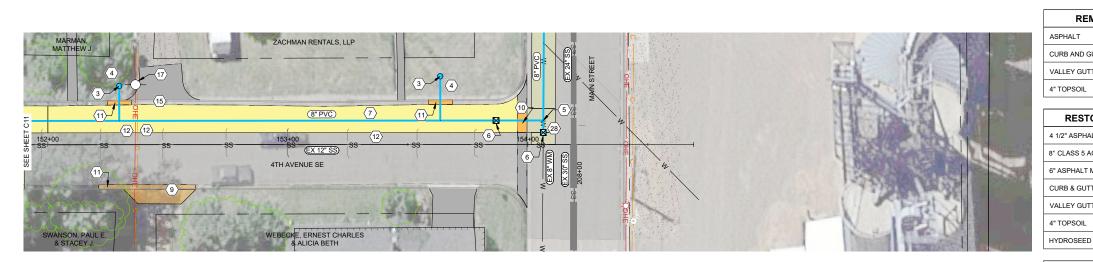
ALT	551 SY
AGGREGATE BASE	551 SY
ITER	80 LF
TE SIDEWALK	104 SF
E DRIVEWAY	70 SF
	83 SY
)	83 SY

REMOVAL QUANTITIES-CITY

TER	15 LF
SIDEWALK	754 SF

GUTTER	15 LF
SIDEWALK	831 SF





WATERMAIN INSTALLATION			WATER SERVICE INSTALLATION				WATERMAIN STRUC	TURE INSTALLATION	
SIZE	START STATION	END STATION	LENGTH	START STATION	END STATION	DESCRIPTION	LENGTH	STRUCTURE	STATION
8"	152+00.00 - 9.81' L	154+06.44 - 9.99' L	206 LF	152+29.74 - 9.84' L	152+29.73 - 24.31' L	1.0" WM SERVICE	14 LF	8" GATE VALVE & BOX	153+86.76 - 9.97' L
			,	153+63.50 - 9.95' L	153+63.48 - 28.39' L	1.0" WM SERVICE	18 LF	8" TEE CONNECT TO EX.	154+06.44 - 9.99' L

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2740				EX SSMH STA. 114+57.1 RIM: 2766.92				27
EG ELE		69.99	276	6.12				
WM TO		0.00						50.00
STATIC	JN 1	3+00	154	1+00	155	i+00	150	56+00

MOVAL QUANTITIES	
	263 SY
GUTTER	20 LF
TTER	40 SF
	28 SY

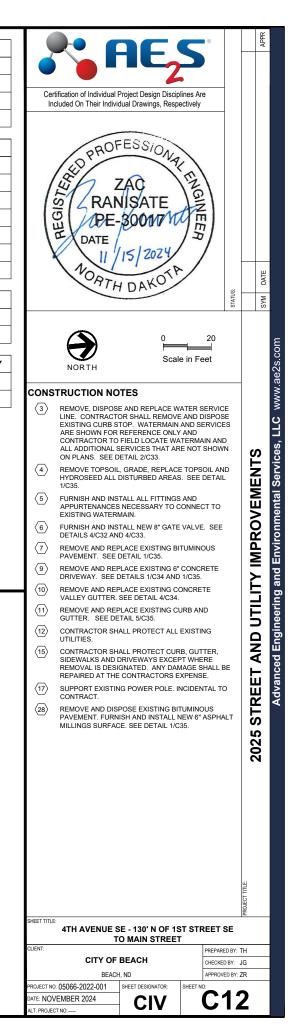
ORATION	QUANT	ITIES

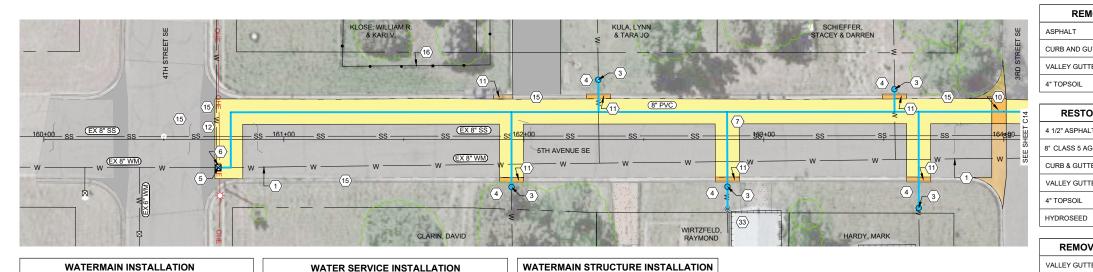
ALT	250 SY
AGGREGATE BASE	250 SY
MILLINGS	13 SY
TER	20 LF
TTER	40 SF
	28 SY
)	28 SY

REMOVAL QUANTITIES-CITY			
CURB & GUTTER	40 LF		
CONCRETE DRIVEWAY	144 SF		

CONCRETE

RESTORATION QUANTITIES-CITY				
CURB AND GUTTER	40 LF			
CONCRETE DRIVEWAY	144 SF			





STRUCTURE

8" GATE VALVE & BOX

CONNECT TO EX

8" 90° BEND

8" 90° BEND

31 LF

13 LF

40 LF

9 LF

40 LF

STATION

160+72.63 - 11.75' R

160+77.89 - 11.69' R

160+77.88 - 11.32' L

WATER SERVICE INSTALLATION

START STATION END STATION DESCRIPTION LENGTH

161+94.83 - 11.41' L 161+94.86 - 19.85' R 1.0" WM SERVICE

162+31.12 - 11.44' L 162+30.98 - 24.88' L 1.0" WM SERVICE

162+84.67 - 11.48' L 162+84.87 - 28.95' R 1.0" WM SERVICE

163+54.41 - 11.54' L 163+54.40 - 20.93' L 1.0" WM SERVICE

163+64.50 - 11.54' L 163+64.53 - 28.53' R 1.0" WM SERVICE

VALLEY GUTTER
RESTORATION QU

VALLEY GUT

WATERMAIN INSTALLATION				
SIZE	START STATION	END STATION	LENGTH	
8"	160+72.63 - 11.75' R	160+77.89 - 11.69' R	5 LF	
8"	160+77.89 - 11.69' R	160+77.88 - 11.32' L	23 LF	
8"	160+77.88 - 11.32' L	164+00.00 - 11.57' L	322 LF	

	EX58MH EX58MH STA.100+57.31 RIM: 278345			
2780				
77777777777	(EX 8" SS)			
		(8" PVC)		
		 	EX SAN. SEWER)	
2790	(1)			
		ñ		
		GRADE)		
2800				

MOVAL QUANTITIES	
	497 SY
GUTTER	50 LF
TTER	63 SF
54 SY	

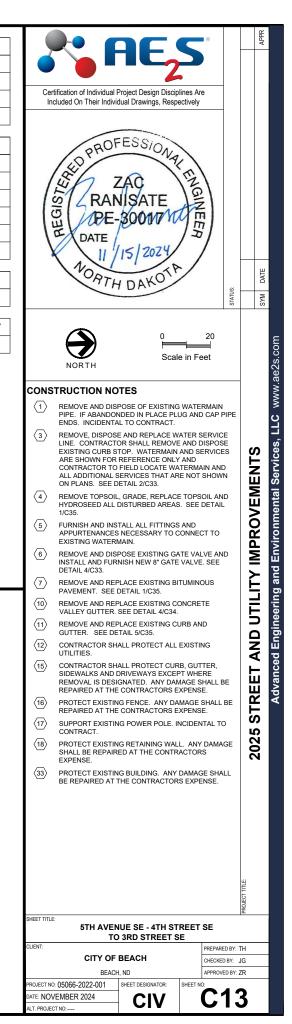
ORATION QUANTITIES	
ALT	497 SY

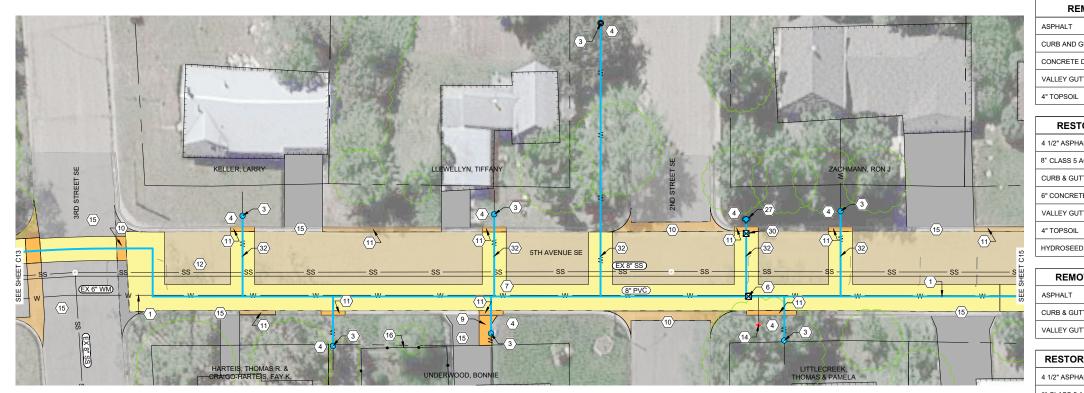
121	457 01
AGGREGATE BASE	497 SY
TER	50 LF
TER	63 SF
	54 SY
)	54 SY

REMOVAL QUANTITIES-CITY

RATION QUANTITI	ES-CITY
TER	248 SF

248 SF





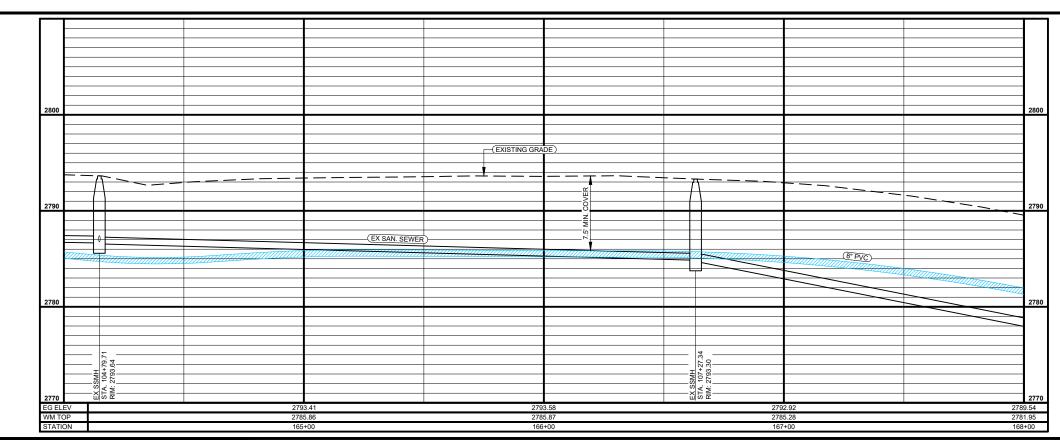
WATERMAIN INSTALLATION			
SIZE START STATION END STATION LENGT		LENGTH	
8"	164+00.00 - 11.57' L	164+47.03 - 11.55' L	48 LF
8"	164+47.03 - 11.55' L	164+47.03 - 8.49' R	20 LF
8"	164+47.03 - 8.49' R	168+00.00 - 8.45' R	353 LF
6"	166+94.31 - 8.46' R	166+94.31 - 23.73' L	32 LF

_					
	WAT	ER SERVICE IN	ISTALLATION		WATERMAIN
t	START STATION	END STATION	DESCRIPTION	LENGTH	STRUCTUR
ſ	164+84.50 - 8.48' R	164+84.50 - 25.11' L	1.0" WM SERVICE	34 LF	8" 90° BEND
	165+22.21 - 8.48' R	165+22.21 - 29.08' R	1.0" WM SERVICE	21 LF	8" 90° BEND
ſ	165+88.04 - 8.47' R	165+88.04 - 23.89' R	1.0" WM SERVICE	15 LF	8" X 6" TEE
	165+89.34 - 8.47' R	165+89.33 - 25.77' L	1.0" WM SERVICE	34 LF	
	166+33.62 - 8.47' R	166+33.71 - 125.45' L	1.0" WM SERVICE	133 LF	6" GATE VALVE 8
	167+10.20 - 8.46' R	167+10.20 - 26.81' R	1.0" WM SERVICE	18 LF	6" HYDRAN
	167+33.66 - 8.46' R	167+33.65 - 21.05' L	1.0" WM SERVICE	36 LF	8" GATE VALVE 8
-					

ION WATERMAIN STRUCTURE INSTALLATION			TURE INSTALLATION
TION	LENGTH	STRUCTURE	STATION
RVICE	34 LF	8" 90° BEND	164+47.03 - 11.55' L
RVICE	21 LF	8" 90° BEND	164+47.03 - 8.49' R
RVICE	15 LF	8" X 6" TEE	166+94.31 - 8.46' R
RVICE	34 LF		100104.01 - 0.40 10
RVICE	133 LF	6" GATE VALVE & BOX	166+94.31 - 17.73' L
RVICE	18 LF	6" HYDRANT	166+94.31 - 23.73' L
RVICE	36 LF	8" GATE VALVE & BOX	166+95.32 - 8.46' R

SHEE	REMO
SEE	ASPHALT
	CURB & GU
	VALLEY GU
-	
	RESTOR
	4 1/2" ASPH

8" CLASS 5 A CURB & GU VALLEY GU



REMOVAL QUANTITIES		
ALT.	639 SY	
AND GUTTER	81 LF	
RETE DRIVEWAY	69 SF	
Y GUTTER	40 SF	
SOIL	108 SY	

RESTORATION QUANTITIES

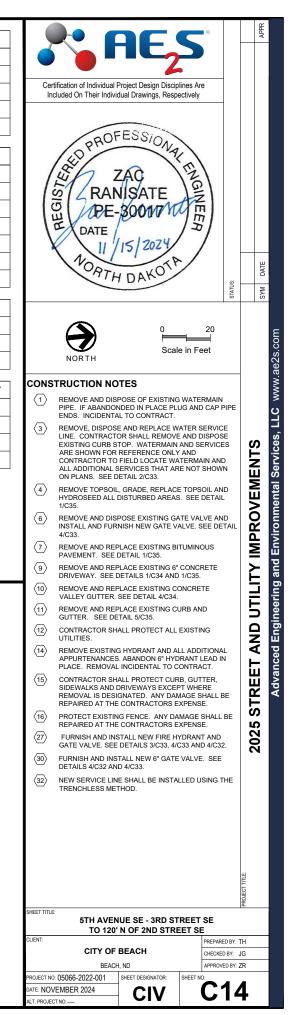
ALT	639 SY
AGGREGATE BASE	639 SY
ITER	81 LF
E DRIVEWAY	69 SF
ITER	40 SF
	108 SY
)	108 SY

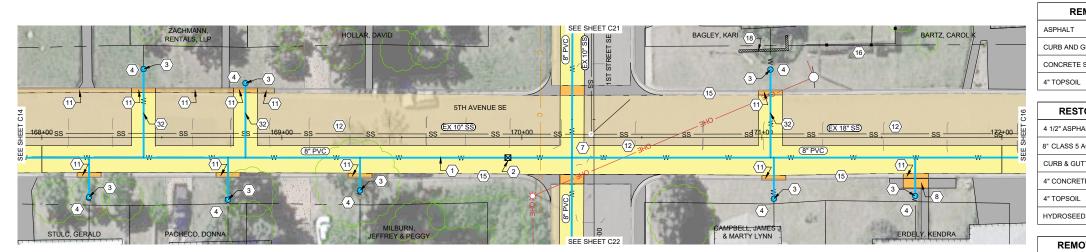
OVAL QUANTITIES-CITY

	727 SY
ITER	76 LF
TTER	363 SF

RATION QUANTITIES-CITY

ALT	727 SY
AGGREGATE BASE	727 SY
TTER	76 LF
TTER	363 SF





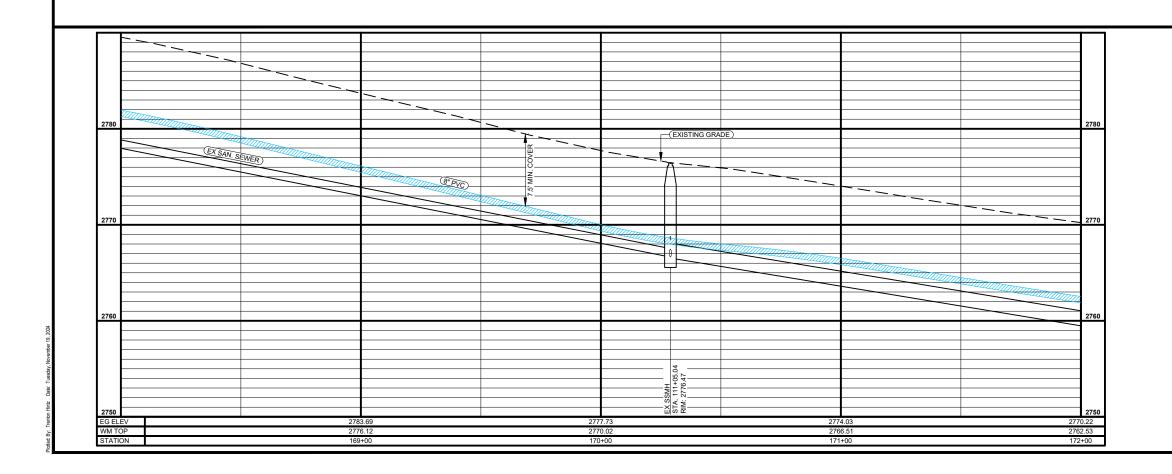
WATERMAIN INSTALLATION				
SIZE	START STATION	END STATION	LENGTH	
8"	168+00.00 - 8.45' R	172+00.00 - 8.38' R	400 LF	

WATER SERVICE INSTALLATION				
START STATION	LENGTH			
168+19.67 - 8.45' R	168+19.67 - 24.85' R	1.0" WM SERVICE	16 LF	
168+42.38 - 8.14' R	168+42.42 - 28.50' L	1.0" WM SERVICE	37 LF	
168+77.59 - 8.44' R	168+77.59 - 25.96' R	1.0" WM SERVICE	18 LF	
168+84.85 - 8.44' R	168+84.85 - 22.60' L	1.0" WM SERVICE	31 LF	
169+32.58 - 8.44' R	169+32.58 - 22.08' R	1.0" WM SERVICE	14 LF	
171+03.58 - 8.40' R	171+03.57 - 28.28' L	1.0" WM SERVICE	37 LF	
171+05.00 - 8.40' R	171+05.00 - 25.53' R	1.0" WM SERVICE	17 LF	
171+63.87 - 8.39' R	171+63.87 - 24.38' R	1.0" WM SERVICE	16 LF	

WATERMAIN STRUCTURE INSTALLATION			
STRUCTURE	STATION		
8" GATE VALVE & BOX	169+94.19 - 8.43' R		
8" CROSS	170+20.86 - 8.43' R		

ASPHALT
CURB & GU

4 1/2" ASPHA 8" CLASS 5 A CURB & GU



MOVAL QUANTITIES	
	615

	615 SY
GUTTER	80 LF
SIDEWALK	42 SF
	100 SY

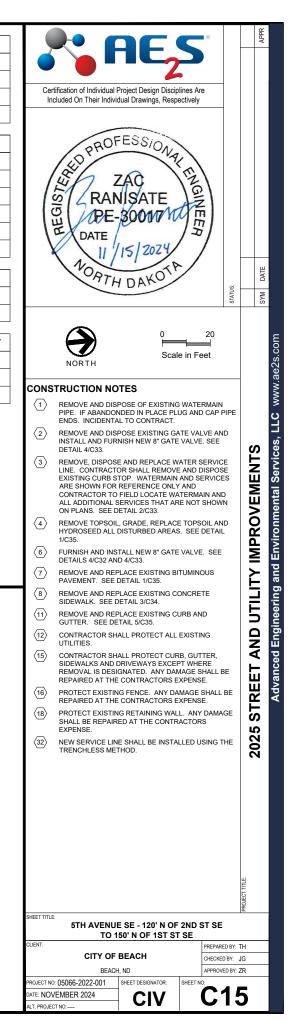
RESTORATION QUANTITIES

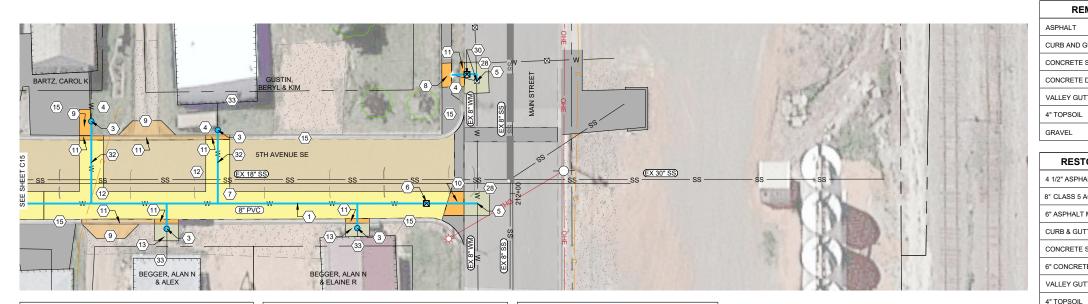
ALT	615 SY
AGGREGATE BASE	615 SY
ITER	80 LF
TE SIDEWALK 42 SF	
	100 SY
)	100 SY

REMOVAL QUANTITIES-CITY

	860 SY
TER	77 LF

ALT	860 SY
AGGREGATE BASE	860 SY
TTER	77 LF





	WATERMAIN STRUCTURE INSTALLATION		
NGTH	STRUCTURE	STATION	
34 LF	8" GATE VALVE & BOX	173+59.40 - 8.33' R	
I1 LF	8" TEE CONNECT TO EX.	173+80.68 - 8.32' R	
31 LF	8" X 6" TEE	173+80.27 - 45.58' L	
10 LF	6" GATE VALVE & BOX	173+76.28 - 45.44' L	

WATER SERVICE INSTALLATION				
LENGTH	START STATION	END STATION	DESCRIPTION	LENG
181 LF	172+19.79 - 8.37' R	172+19.78 - 25.90' L	1.0" WM SERVICE	34 I
3 LF	172+51.19 - 8.36' R	172+51.19 - 18.90' R	1.0" WM SERVICE	11
 10 LF	172+72.48 - 8.35' R	172+72.48 - 22.28' L	1.0" WM SERVICE	31
 IULF	173+30.61 - 8.34' R	173+30.62 - 18.64' R	1.0" WM SERVICE	10 I
	L			

WATERMAIN INSTALLATION				
SIZE	START STATION	END STATION	LENGTH	
8"	172+00.00 - 8.38' R	173+80.68 - 8.32' R	181 LF	
8"	173+80.37 - 42.61' L	173+80.27 - 45.58' L	3 LF	
6"	173+80.27 - 45.58' L	173+70.26 - 45.23' L	10 LF	

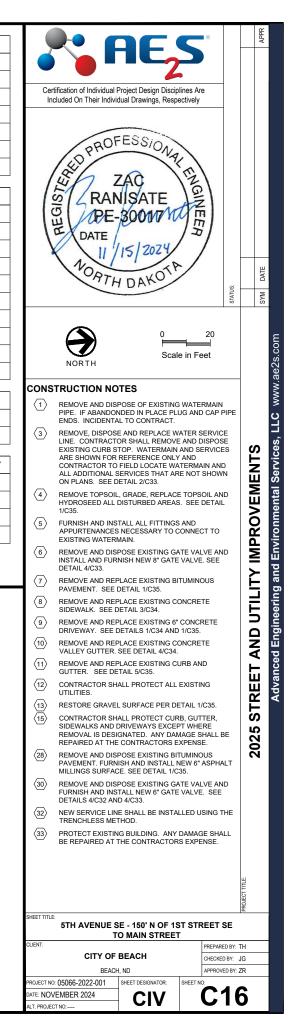
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2740		CC 70	EX (STA	2 <u>7</u>		
			EX SSMH STA. 114-54.03	g 		
2750						
2750						
	(EX SAN. SEVER)	8" PVC				
2760		U. 0. WIN 2.5				
			<u>7</u>			
		EXISTING GRA	ADE)			
2770						

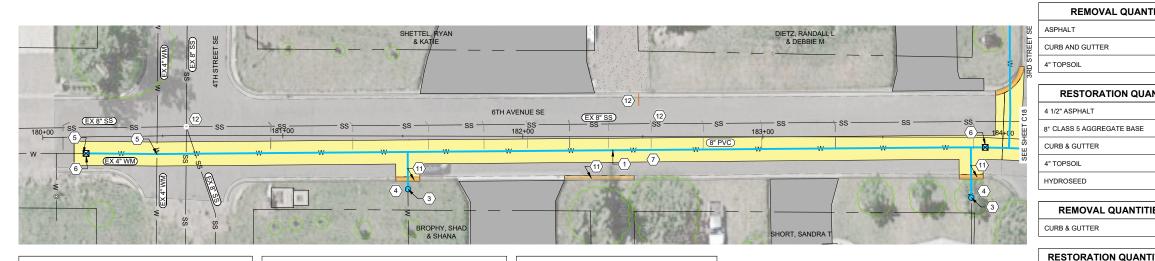
REMOVAL QUANTITIES					
ALT.	288 SY				
AND GUTTER	50 LF				
RETE SIDEWALK	41 SF				
RETE DRIVEWAY	51 SF				
Y GUTTER	70 SF				
SOIL	18 SY				
L	125 SF				

4 1/2" ASPHALT	261 SY
8" CLASS 5 AGGREGATE BASE	261 SY
6" ASPHALT MILLINGS	237 SF
CURB & GUTTER	50 LF
CONCRETE SIDEWALK	41 SF
6" CONCRETE DRIVEWAY	51 SF
VALLEY GUTTER	70 SF
4" TOPSOIL	18 SY
HYDROSEED	18 SY
GRAVEL	125 SF

REMOVAL QUANTITIES-CITY			
ASPHALT	363 SY		
CURB & GUTTER	73 LF		

RESTORATION QUANTITIES-CITY						
4 1/2" ASPHALT	363 SY					
8" CLASS 5 AGGREGATE BASE	363 SY					
CURB & GUTTER	73 LF					
CONCRETE DRIVEWAY	216 SF					

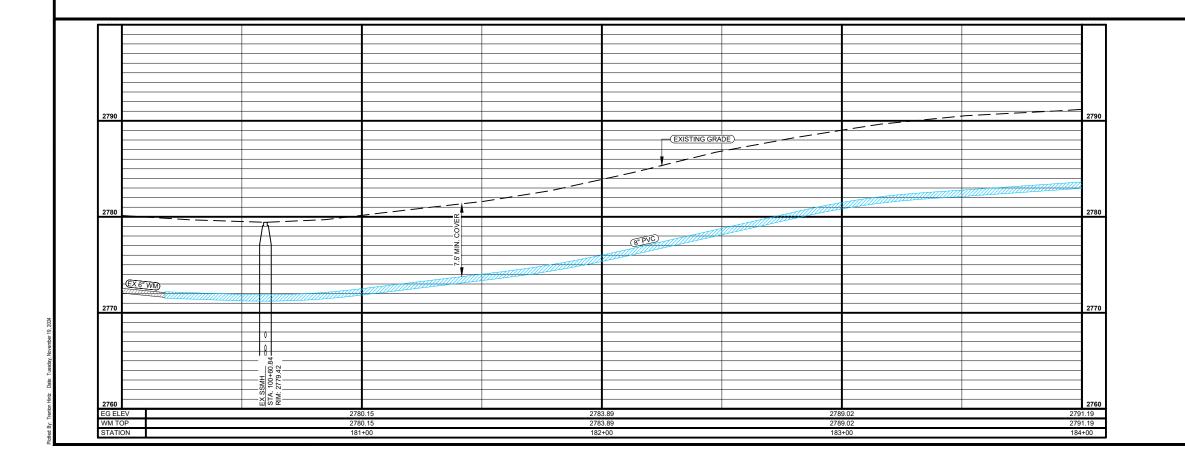




CURB AND G

TION		WATERMAIN STRUCTURE INSTALLATION					
PTION	LENGTH	STRUCTURE	STATION				
ERVICE	16 LF	8" GATE VALVE & BOX CONNECT TO EX.	180+17.93 - 6.59' R				
ERVICE	21 LF	8" X 4" CROSS	180+47.50 - 7.54' R				
		8" GATE VALVE & BOX	183+92.80 - 3.94' R				

WATERMAIN INSTALLATION					WAT	ER SERVICE IN	ISTALLAT
SIZE	START STATION	END STATION	LENGTH	ĺ	START STATION	END STATION	DESCRIPT
8"	180+17.93 - 6.59' R	184+00.00 - 3.96' R	382 LF		181+52.01 - 6.63' R	181+52.18 - 22.17' R	1.0" WM SER
					183+86.68 - 4.21' R	183+86.90 - 25.16' R	1.0" WM SER



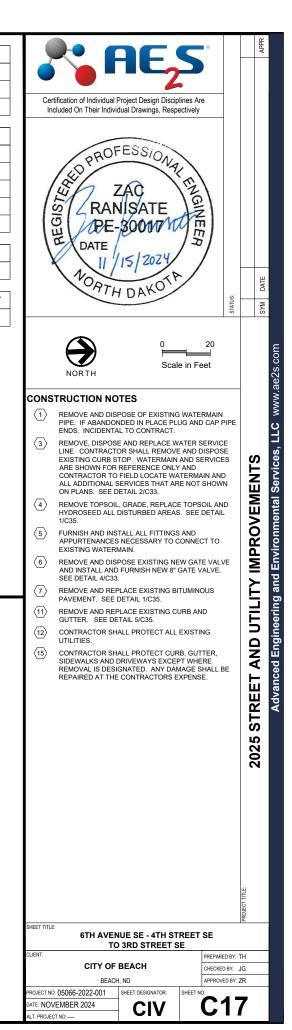
MOVAL QUANTITIES				
	449 SY			
GUTTER	20 LF			
	29 SY			

RESTORATION QUANTITIES

ALT	449 SY
AGGREGATE BASE	449 SY
TER	20 LF
	23 SY
)	23 SY

REMOVAL QUANTITIES-CITY 29 LF

	ES-CITY
GUTTER	29 LF







4 1/2" ASPHAI 8" CLASS 5 A CURB & GUTT 4" CONCRETE 4 1/2" ASPHAI 6" CLASS 5 A 4" TOPSOIL HYDROSEED

REMO ASPHALT

RESTOR 4 1/2" ASPHA

8" CLASS 5 AGGREGATE BASE



	WATER SERVICE INSTALLATION				WATERMAIN STRUCTURE INSTALLATION		
LENGTH	START STATION	END STATION	DESCRIPTION	LENGTH	STRUCTURE	STATION	
400 LF	184+76.89 - 4.63' R	184+77.90 - 31.48' L	1.0" WM SERVICE	36 LF	8" X 2" TEE	184+02.68 - 3.94' R	
31 LF	185+64.19 - 7.06' R	185+64.97 - 20.80' L	1.0" WM SERVICE	28 LF	8" X 6" TEE	186+13.92 - 8.41' R	
	185+78.56 - 7.46' R	185+78.15 - 22.17' R	1.0" WM SERVICE	15 LF	6" GATE VALVE & BOX	186+14.47 - 13.36' L	
	187+46.50 - 7.93' R	187+46.22 - 26.45' L	1.0" WM SERVICE	34 LF			
	187+59.53 - 7.78' R	187+59.76 - 24.23' R	1.0" WM SERVICE	16 LF	6" HYDRANT	186+14.70 - 22.35' L	
					8" GATE VALVE & BOX	186+28.53 - 8.77' R	

WATERMAIN INSTALLATION

188+00.00 - 7.20' R

186+14.70 - 22.35' L

SIZE START STATION END STATION

184+00.00 - 3.96' R

186+13.92 - 8.41' R

8"

6"

		+				
2790						
			[
				· · · ·		
·/////			8" PVC			
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			WS No Contraction of the second secon			
2760	EX SSMH STA. 105-06.0		HUT SEAL			
EG ELEV	27	92.81 92.81	1.40 1.40	278	37.25 37.25	278 278
WM TOP						

MOVAL QUANTITIES			
	520 SY		
GUTTER	71 LF		
SIDEWALK	40 SF		
RIVEWAY	68 SF		
	68 SY		

RESTORATION QUANTITIES

ALT	520 SY
AGGREGATE BASE	520 SY
ITER	71 LF
TE SIDEWALK	40 SF
ALT DRIVEWAY	68 SF
AGGREGATE BASE	68 SF
	68 SY
)	68 SY

OVAL QUANTITIES	-CITY
	23 SY

RATION QUANTITI	ES-CITY
ALT	23 SY

23 SY

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BEACH, ND APPROVED BY: ZR PROJECT NO: 05066-2022-001 SHEET DESIGNATOR: DATE: NOVEMBER 2024 CIV	CLIENT:	TO 135'	N OF 2ND STRE	ET SE	ED BY: TH	-
PROJECT NO: 05066-2022-001 SHEET DESIGNATOR: SHEET NO: C18						
		05066-2022-001	SHEET DESIGNATOR:	SHEET NO:		
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4 1/2" ASPHAI 8" CLASS 5 A CURB & GUTT 4" CONCRETE VALLEY GUT 4" TOPSOIL HYDROSEED

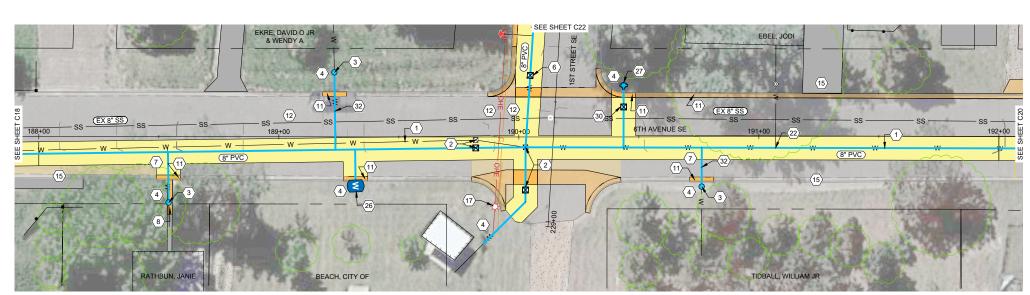
REMOVAL QUANTITIES-CITY ASPHALT 53 SY

CURB & GUT

4 1/2" ASPHA 8" CLASS 5 A

CURB AND G

-



6" GATE VALVE & BOX

6" HYDRANT

190+43.65 - 12.52' L

190+43.67 - 21.52' L

	WATER SERVICE INSTALLATION				WATERMAIN STRUC	TURE INSTALLATION	
ST	ART STATION	END STATION	DESCRIPTION	LENGTH	STRUCTURE	STATION	
18	88+53.82 - 6.44' R	188+54.14 - 27.50' R	1.0" WM SERVICE	21 LF	METER PIT	189+32.01 - 20.44' R	
18	39+23.59 - 5.40' R	189+23.11 - 26.85' L	1.0" WM SERVICE	32 LF	8" GATE VALVE & BOX	189+82.02 - 4.57' R	
18	89+31.78 - 5.27' R	189+32.01 - 20.44' R	1.0" WM SERVICE	15 LF	8" CROSS	190+02.79 - 4.29' R	
19	0+76.20 - 4.57' R	190+76.10 - 20.81' R	1.0" WM SERVICE	16 LF	0 01000	130102.73 4.23 1	
]	8" X 6" TEE	190+43.61 - 4.38' R	

WATERMAIN INSTALLATION						
SIZE	START STATION	END STATION	LENGTH			
8"	188+00.00 - 7.20' R	192+00.00 - 4.90' R	400 LF			
6"	190+43.61 - 4.38' R	190+43.67 - 21.52' L	26 LF			

2780	·								
				EXISTING GRADI					
			+						
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	EX SAN. SEWER						COVE		
2770						01			
						8	PVC K		
					—L				
2760									
						<u> </u>			
						RIM: 2776-18			
					SSM	277			
2750					——X				
EG ELEV	27	78.74		2776.	38			75.58 75.58	2775

MOVAL QUANTITIES			
497 SY			
GUTTER	50 LF		
SIDEWALK	29 SF		
TTER	2 SF		
	52 SY		

RESTORATION QUANTITIES

ALT	497 SY
AGGREGATE BASE	497 SY
ITER	50 LF
TE SIDEWALK	29 SF
ITER	2 SF
	52 SY
כ	52 SY

TTER	151 LF

ALT	53 SY	
AGGREGATE BASE	53 SY	
GUTTER	151 LF	

	ification of Individual I			0		APPR	
	RAN PROF RAN DE- DATE NOATH	ESSION 4 ZAC NISATE 30010710 15 2024		stants		SYM DATE	
	NORTH	0 Scal	e in Fe	20 II et			ae2s.com
CONS [.]	TRUCTION NO	TES					ww.
$\langle 1 \rangle$	PIPE. IF ABANDO	POSE OF EXISTING			=		≶ ບ
2		AL TO CONTRACT. POSE EXISTING GA NISH NEW 8" GATE			ď	ר	es, LL(
3	REMOVE, DISPOS LINE. CONTRACTO EXISTING CURB S ARE SHOWN FOR CONTRACTOR TO	E AND REPLACE W OR SHALL REMOVE TOP. WATERMAIN REFERENCE ONLY FIELD LOCATE WA SERVICES THAT AR SERVICES THAT AR	AND DI AND SE AND TERMAI	SPOSE RVICES N AND	MDROV/EMENTS		ering and Environmental Services, LLC www.ae2s.com
4	REMOVE TOPSOIL	., GRADE, REPLACI DISTURBED AREAS					ironm
6		TALL NEW 8" GATE D 4/C33.	VALVE.	SEE			Env
$\langle 7 \rangle$	REMOVE AND REP PAVEMENT. SEE	PLACE EXISTING BI DETAIL 1/C35.	TUMINO	US	∣≥	-	and
8	REMOVE AND REP SIDEWALK. SEE D	PLACE EXISTING CO DETAIL 3/C34.	ONCRET	E	E]	sring
(11)	REMOVE AND REF GUTTER. SEE DE	PLACE EXISTING CI TAIL 5/C35.	JRB AND)		5	Jinee
(12)	CONTRACTOR SH UTILITIES.	ALL PROTECT ALL	EXISTIN	G			Eng
(15)	SIDEWALKS AND I REMOVAL IS DESI	ALL PROTECT CUR DRIVEWAYS EXCER GNATED. ANY DAM CONTRACTORS E	PT WHEF	RE IALL BE		[-]	Advanced Engine
(17)	SUPPORT EXISTIN CONTRACT.	IG POWER POLE. II	NCIDENT	TAL TO	STRF		Adv
22		TALL ALL FITTINGS NECESSARY TO C		т то	۲ ۲	5	
26		TALL NEW WATER	METER	PIT. SEE	0.05	í	
27	FURNISH AND INS	TALL NEW FIRE HY DETAILS 3/C33, 4/0			۲ ۲	1	
30		TALL NEW 6" GATE					
32		E SHALL BE INSTA	LLED US	ING THE			
					PROJECT TITLE:		
SHEET TITLE:		E SE - 135' N OF	2ND S	T SE	đ.		
CLIENT:	TO 1	70' N OF 1ST ST	SE	PREPARED B	r: TH		
	CITY OF BEACH		- F	CHECKED BY APPROVED B			
	05066-2022-001 EMBER 2024	SHEET DESIGNATOR:	SHEET NO:		-		
ALT. PROJEC		CIV		C1	3		



ASPHALT

CURB AND C

4" TOPSOIL

4 1/2" ASPHA 8" CLASS 5 A 6" ASPHALT

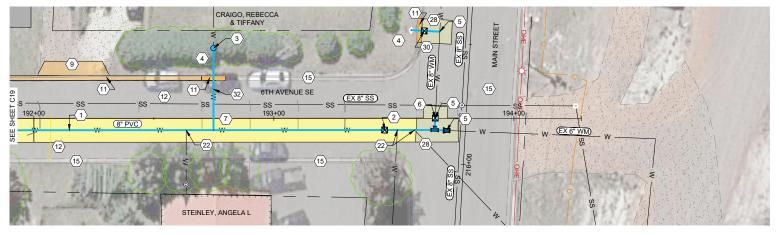
CURB & GUT

4" TOPSOIL

HYDROSEED

CURB & GUTTER

CURB AND G CONCRETE D



	WATERMAIN I	WATER SERVICE INSTALLATION				WATERMAIN STRUCTURE INSTALLATI			
SIZE	START STATION	END STATION	LENGTH	START STATION	END STATION	DESCRIPTION	LENGTH	STRUCTURE	STATION
8"	192+00.00 - 4.90' R	193+71.99 - 5.02' R	172 LF	192+74.84 - 4.87' R	192+74.83 - 29.28' L	1.0" WM SERVICE	34 LF	8" GATE VALVE & BOX	193+46.16 - 4.83' R
8"	193+66.99 - 4.82' R	193+67.25 - 0.18' L	5 LF					8" TEE	193+66.99 - 4.82' R
6"	193+69.13 - 36.16' L	193+57.25 - 36.78' L	12 LF					8" X 6" REDUCER CONNECT TO EX.	193+71.99 - 5.02' R
								8" GATE VALVE & BOX	193+67.25 - 0.18' L
								8" X 6" TEE	193+69.13 - 36.16' L

	Image: second se		
2780			
_	(EXISTING GRADE)		
2770			
	(EX SAN. SEWER)	EX 6" WM)	
2760			
	Image: sector	EX58MH EX58MH STA. 1144-87.98 RIM: 2770.00 RIM: 2770.00	
2750			
EG ELEV	2771.51		

6" GATE VALVE & BOX

193+62.63 - 36.50' L

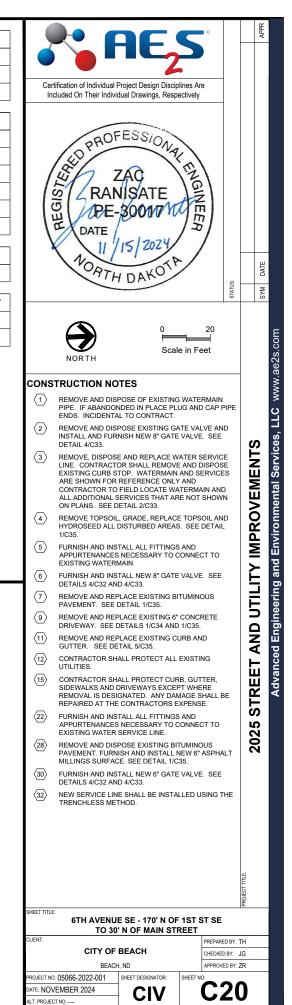
MOVAL QUANTITIES					
	216 SY				
GUTTER	20 LF				
	26 SY				

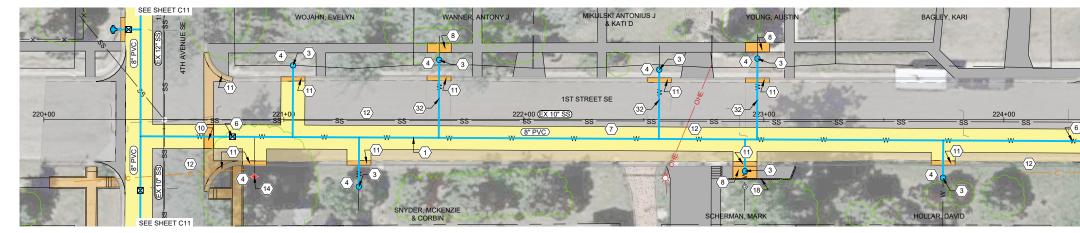
RESTORATION QUANTITIES

ALT	177 SY
AGGREGATE BASE	177 SY
MILLINGS	39 SY
TER	20 LF
	26 SY
)	26 SY

REMOVAL QUANTITIES-CITY 70 LF

	-
GUTTER	70 LF
DRIVEWAY	155 SF





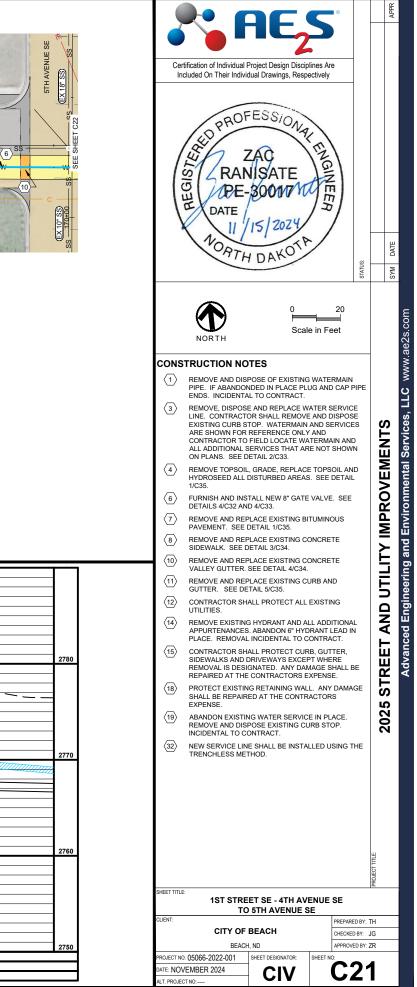
WATERMAIN INSTALLATION							
SIZE	START STATION	END STATION	LENGTH				
8"	220+40.29 - 7.00' R	224+50.00 - 9.12' R	410 LF				

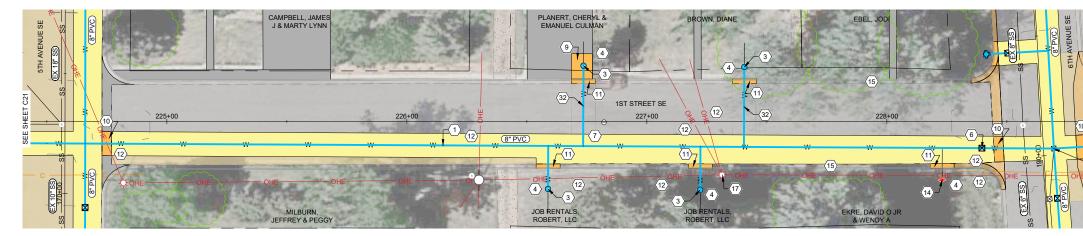
WATER SERVICE INSTALLATION							
START STATION	END STATION	DESCRIPTION	LENGTH				
221+03.68 - 7.33' R	221+03.84 - 22.51' L	1.0" WM SERVICE	30 LF				
221+31.35 - 7.47' R	221+31.24 - 28.01' R	1.0" WM SERVICE	21 LF				
221+64.53 - 7.64' R	221+64.70 - 24.81' L	1.0" WM SERVICE	32 LF				
222+56.25 - 8.12' R	222+56.40 - 20.75' L	1.0" WM SERVICE	29 LF				
222+92.17 - 8.30' R	222+92.10 - 21.54' R	1.0" WM SERVICE	13 LF				
222+97.13 - 8.33' R	222+97.31 - 25.36' L	1.0" WM SERVICE	34 LF				
223+74.72 - 8.73' R	223+74.64 - 24.29' R	1.0" WM SERVICE	16 LF				

WATERMAIN STRUCTURE INSTALLATION					
STRUCTURE	STATION				
8" GATE VALVE & BOX	220+78.60 - 7.20' R				
8" GATE VALVE & BOX	224+28.60 - 9.01' R				

REMOVAL QUANTITIES		RESTORATION QUANTITIES		REMOVAL QUANTITIES-CITY		RESTORATION QUANTITIES-CITY	
ASPHALT	446 SY	4 1/2" ASPHALT	446 SY	ASPHALT	153 SY	4 1/2" ASPHALT	153 SY
CURB AND GUTTER	80 LF	8" CLASS 5 AGGREGATE BASE	446 SY	CURB AND GUTTER	36 LF	8" CLASS 5 AGGREGATE BASE	153 SY
CONCRETE SIDEWALK	130 SF	CURB & GUTTER	80 LF	VALLEY GUTTER	179 SF	CURB AND GUTTER	36 LF
VALLEY GUTTER	80 SF	4" CONCRETE SIDEWALK	130 SF			VALLEY GUTTER	179 SF
4" TOPSOIL	80 SY	VALLEY GUTTER	80 SF				
		4" TOPSOIL	80 SY				
		HYDROSEED	80 SY				

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2760									
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2750	EX SSMH STA 111+02. RIM: 2778.98								
EG ELEV		2779.21		277		277		277	
WM TOP		2771.72 221+00		277	1.92 2+00	277	1.35 +00	2770	
STATION									





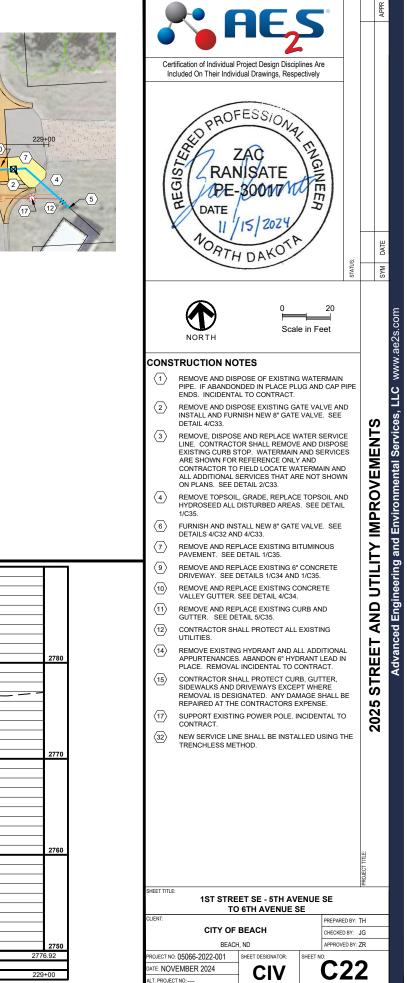
WATERMAIN INSTALLATION								
LENGTH								
420 LF								
47 LF								
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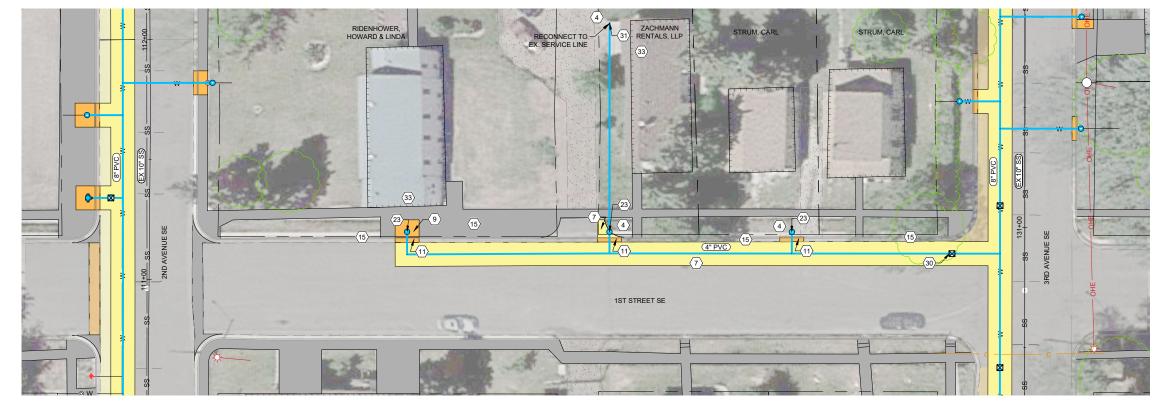
WATER SERVICE INSTALLATION									
START STATION	END STATION	DESCRIPTION	LENGTH						
226+58.90 - 10.19' R	226+58.81 - 28.12' R	1.0" WM SERVICE	18 LF						
226+73.43 - 10.27' R	226+73.60 - 23.21' L	1.0" WM SERVICE	33 LF						
227+22.34 - 10.52' R	227+22.24 - 28.48' R	1.0" WM SERVICE	18 LF						
227+40.43 - 10.62' R	227+40.61 - 22.68' L	1.0" WM SERVICE	33 LF						

WATERMAIN STRUCTURE INSTALLATION							
STRUCTURE	STATION						
8" CROSSING	224+65.98 - 9.20' R						
8" GATE VALVE & BOX	228+39.57 - 11.13' R						
8" CROSSING	228+69.56 - 11.28' R						
8" GATE VALVE & BOX	228+87.34 - 10.27' R						
8" 45° BEND	228+92.34 - 9.98' R						
8" X 4" REDUCER CONNECT TO EX.	229+10.68 - 26.34' R						

REMOVAL QUANTIT	IES	RESTORATION QUANT	RESTORATION QUANTITIES			I QUANTITIES RESTORATION QUANTITIES-CITY			ES-CITY	REMOVAL QUANTITIES	IES-CITY	
ASPHALT	514 SY	4 1/2" ASPHALT	514 SY		ASPHALT	65 SY	4 1/2" ASPHALT	65 SY				
CURB AND GUTTER	50 LF	8" CLASS 5 AGGREGATE BASE	514 SY		CURB AND GUTTER	76 LF	8" CLASS 5 AGGREGATE BASE	65 SY				
CONCRETE DRIVEWAY	91 SF	CURB & GUTTER	50 LF		VALLEY GUTTER	432 SF	CURB AND GUTTER	76 LF				
VALLEY GUTTER	143 SF	6" CONCRETE DRIVEWAY	91 SF				VALLEY GUTTER	432 SF				
4" TOPSOIL	75 SY	VALLEY GUTTER	143 SF									
		4" TOPSOIL	75 SY									
		HYDROSEED	75 SY									

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EG ELE		277			76.90			76.57			76.30	
WM TC		276			69.19			69.09			68.86	
STATIC	ON	225	5+00	226	6+00		22	7+00		22	8+00	

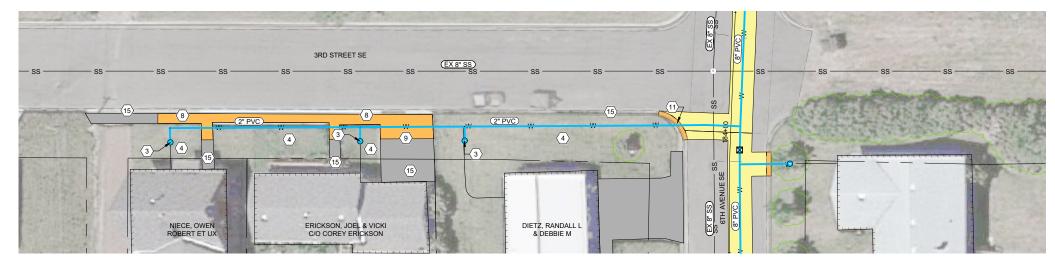




WATERMAIN INSTALLATION WATER SERVICE INSTALLATION				WATERMAIN STRUC	TURE INSTALLATION				
SIZE	START STATION	END STATION	LENGTH	START STATION	END STATION	DESCRIPTION	LENGTH	STRUCTURE	STATION
4"	130+89.06 - 10.29' L	130+89.11 - 173.01' L	163 LF	130+89.09 - 97.02' L	130+98.09 - 97.02' L	1.0" WM SERVICE	9 LF	8" X 4" TEE	130+89.06 + 10.29' L
				130+89.11 - 173.01' L	131+84.99 - 172.98' L	1.0" WM SERVICE	96 LF	4" GATE VALVE & BOX	130+89.07 - 30.29' L
				130+89.11 - 173.01' L	130+98.07 - 257.31' L	1.0" WM SERVICE	94 LF		

REMOVAL QUANTIT	IES	RESTORATION QUAN	TITIES
ASPHALT	276 SY	4 1/2" ASPHALT	276 SY
CURB AND GUTTER	30 LF	8" CLASS 5 AGGREGATE BASE	276 SY
CONCRETE SIDEWALK	74 SF	CURB & GUTTER	30 LF
4" TOPSOIL	14 SY	4" CONCRETE SIDEWALK	74 SF
		4" TOPSOIL	14 SY
		HYDROSEED	14 SY

Certification of Individual F Included On Their Individ				APPR
RAN DATE NORTH	ZAO VISATE BOONTY IS ZOZY	ENGINEER	status:	SYM DATE
NORTH	0 Scal	20 e in Feet		www.ae2s.com
 HYDROSEED ALL I 1/C35. REMOVE AND REF PAVEMENT. SEE I 9 REMOVE AND REF DRIVEWAY. SEE I 10 RESTORE GRAVEI RESTORE GRAVEI CONTRACTOR SH SIDEWALKS AND I REPAIRED AT THE FURNISH AND INS DETAILS 4/C32 AN NEW SERVICE LIN METER INSIDE TH COORDINATE WIT PERMISSION PRIC TO PERFORM NEC PROTECT EXISTIN BE REPAIRED AT THE 	, GRADE, REPLACI DISTURBED AREAS PLACE EXISTING BI DETAIL 1/C35. PLACE EXISTING 6" DETAILS 1/C34 AND PLACE EXISTING CI TAIL 5/C35. L SURFACE PER DI ALL PROTECT CUR ORIVEWAYS EXCEPT DRIVEWAYS EXCEPT CONTRACTORS E TALL NEW 1" WAT GATE	5. SEE DETAIL TUMINOUS CONCRETE 1/C35. JRB AND ETAIL 1/C35. B, GUTTER, TT WHERE AGE SHALL E XPENSE. R SERVICE LI 3. VALVE. SEE THE EXISTING CTOR SHALL ER AND RECE! THEIR PROPE G TIE-INS. DAMAGE SHA		ed Engineering and Environmental Services, LLC
	T SE - 2ND AVEI RD AVENUE SE		ED BY: TH	
CITY OF BEACH PROJECT NO: 05066-2022-001	H, ND SHEET DESIGNATOR:	APPROV SHEET NO:	D BY: JG ED BY: ZR	
DATE: NOVEMBER 2024 ALT. PROJECT NO:	CIV	C	23	

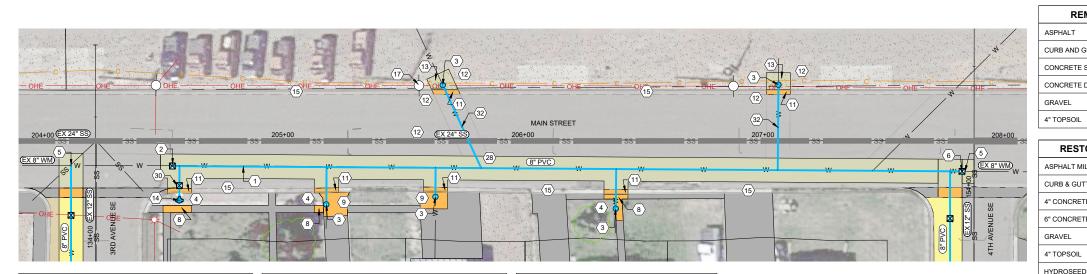


WATERMAIN INSTALLATION									
SIZE	START STATION	END STATION	LENGTH						
2"	184+02.68 - 3.94' L	183+96.21 - 154.35' L	158 LF						

WATER SERVICE INSTALLATION									
START STATION	END STATION	DESCRIPTION	LENGTH						
183+98.13 - 110.86' L	183+92.25 - 110.60' L	1.0" WM SERVICE	6 LF						
183+96.21 - 154.35' L	183+90.31 - 154.09' L	1.0" WM SERVICE	6 LF						
183+96.21 - 154.35' L	183+86.77 - 233.10' L	1.0" WM SERVICE	85 LF						

REMOVAL QUANTITIES			RESTORATION QUANTITIES			
CURB AND GUTTER			CURB & GUTTER	16 LF		
CONCRETE SIDEWALK			4" CONCRETE SIDEWALK	421 SF		
CONCRETE DRIVEWAY	RIVEWAY 224 SF		6" CONCRETE DRIVEWAY	224 SF		
4" TOPSOIL	4" TOPSOIL 200 SY		4" TOPSOIL	200 SY		
			HYDROSEED	200 SY		

Certification of Individual Included On Their Indiv Certification of Individual Included On Their Individual Include On Their Individual Inc	ESSIONA ZAO VISATE 3001/7/10	ectively	STATUS:	
NORTH	0 Scal	20 e in Feet		2s.com
LINE_CONTRACT EXISTING CURB S ARE SHOWN FOF CONTRACTOR TO ALL ADDITIONAL ON PLANS. SEE I REMOVE TOPSOI HYDROSEED ALL 1/C35. REMOVE AND RE SIDEWALK. SEE REMOVE AND RE DRIVEWAY. SEE II) REMOVE AND RE GUTTER. SEE DI CONTRACTOR SF SIDEWALKS AND REMOVAL IS DES	E AND REPLACE W OR SHALL REMOVE STOP. WATERMAIN FIELD LOCATE WA SERVICES THAT AR DETAIL 2/C33. L, GRADE, REPLACI DISTURBED AREAS PLACE EXISTING 6° DETAIL 3/C34. AND DETAILS 1/C34 AND PLACE EXISTING 6°	AND DISPOSI AND SERVICE AND TERMAIN AND E NOT SHOWN TOPSOIL ANI S. SEE DETAIL DNCRETE CONCRETE 1/C35. JRB AND B, GUTTER, T WHERE AGE SHALL B		Advanced Engineering and Environmental Services, LLC www.ae2s.com
SHEET TITLE: 3RD STREE	ET SE - 5TH AVE	NUE SE TO	PROJECT TITLE	
	6TH AVENUE SE BEACH	PREPARE	BY: JG	
BEAC PROJECT NO: 05066-2022-001 DATE: NOVEMBER 2024 ALT. PROJECT NO:	H, ND SHEET DESIGNATOR: CIV	APPROVE SHEET NO:	24	



	WATERMAIN INSTALLATION									
SIZE	START STATION	END STATION	LENGTH							
8"	204+53.95 - 10.75' R	207+82.99 - 12.88' R	329 LF							
6"	204+56.92 - 10.77' R	204+56.80 - 25.04' R	14 LF							

WATER SERVICE INSTALLATION						
START STATION	END STATION	DESCRIPTION	LENGTH			
205+18.18 - 11.29' F	R 205+18.05 - 26.87' R	1.0" WM SERVICE	16 LF			
205+63.63 - 11.67' F	R 205+63.53 - 23.76' R	1.0" WM SERVICE	12 LF			
205+82.66 - 11.77' F	R 205+66.59 - 22.79' L	1.0" WM SERVICE	38 LF			
206+38.87 - 12.08' F	R 206+38.78 - 28.62' R	1.0" WM SERVICE	17 LF			
207+06.20 - 12.45' F	207+06.43 - 23.11' L	1.0" WM SERVICE	36 LF			

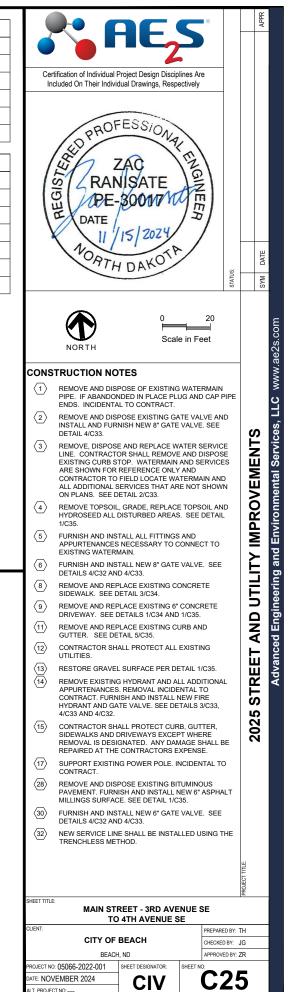
WATERMAIN STRUCTURE INSTALLATION						
STRUCTURE STATION						
CONNECT TO EX. 8" GATE VALVE & BOX	204+53.95 - 10.75' R					
8" X 6" TEE	204+56.92 - 10.77' R					
6" GATE VALVE & BOX	204+56.86 - 18.88' R					
6" HYDRANT	204+56.80 - 25.04' R					
8" TEE	207+77.99 - 12.85' R					
8" GATE VALVE & BOX	207+82.99 - 12.88' R					

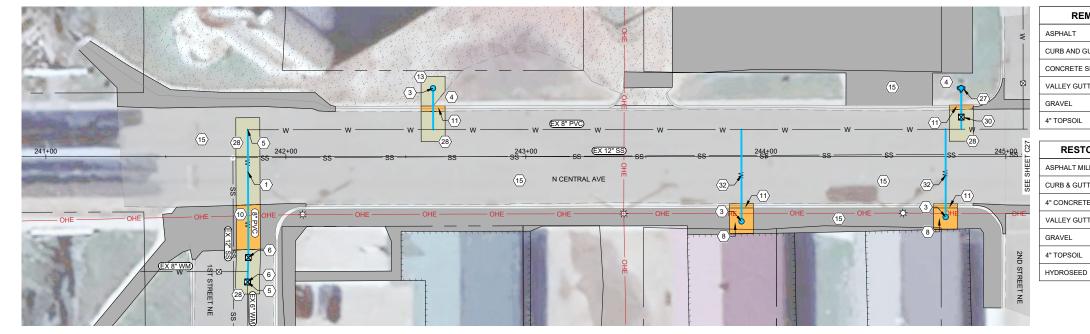
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MOVAL QUANTITIES					
	444 SY				
GUTTER	60 LF				
SIDEWALK	92 SF				
DRIVEWAY	182 SF				
	140 SF				
	16 SY				

FORATION QUANTITIES							
MILLINGS	443 SY						
ITTER	60 LF						
TE SIDEWALK	92 SF						
TE DRIVEWAY	182 SF						
	140 SF						
-	16 SY						
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16 SY



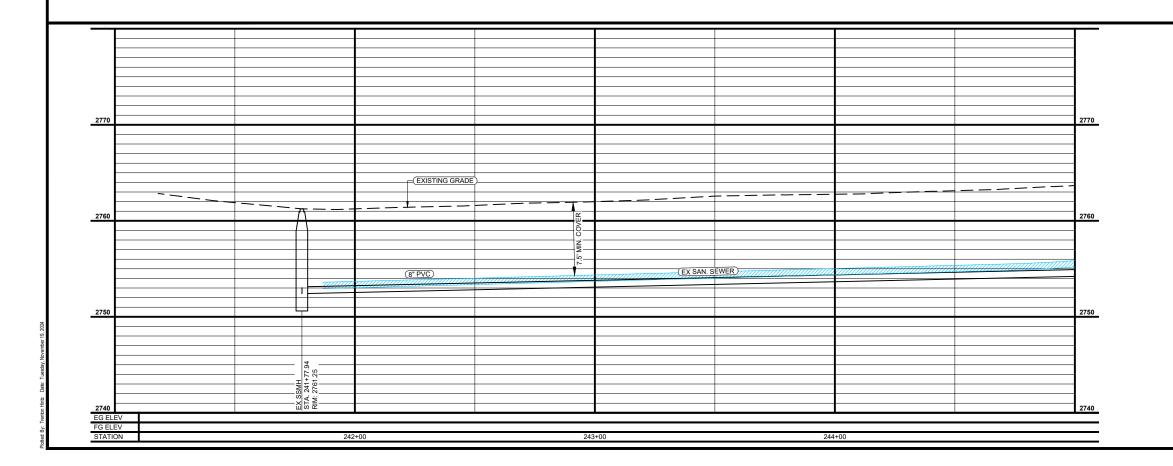


	WATERMAIN INSTALLATION								
	SIZE	START STATION	END STATION	LENGTH					
ſ	8"	241+84.05 - 52.19' R	241+84.16 - 11.21' L	63 LF					
ſ	6"	244+81.41 - 11.48' L	244+81.37 - 28.59' L	17 LF					

WAT	ER SERVICE IN	ISTALLATION
TATION	END STATION	DESCRIPTION

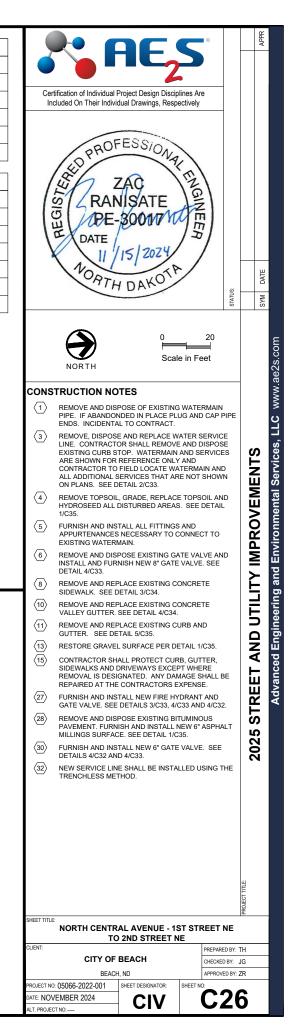
START STATION	END STATION	DESCRIPTION	LENGTH
242+61.35 - 11.28' L	242+61.34 - 28.52' L	1.0" WM SERVICE	17 LF
243+89.81 - 11.40' L	243+89.84 - 26.94' R	1.0" WM SERVICE	38 LF
244+74.88 - 11.47' L	244+74.91 - 25.15' R	1.0" WM SERVICE	37 LF

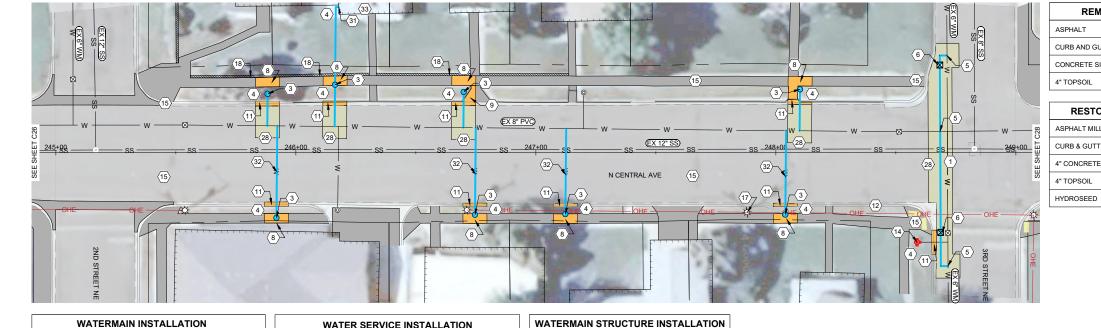
WATERMAIN STRUCTURE INSTALLATION						
STRUCTURE	STATION					
8" X 6" REDUCER CONNECT TO EX.	241+84.05 - 52.19' R					
8" X 8" TEE CONNECT TO EX.	241+84.19 - 47.90' R					
8" GATE VALVE & BOX	241+84.38 - 42.01' R					
8" 90° BEND CONNECT TO EX.	241+86.45 - 11.21' L					
8" X 6" TEE	244+81.41 - 11.48' L					
6" GATE VALVE & BOX	244+81.40 - 16.48' L					
6" HYDRANT	244+81.37 - 28.59' L					



MOVAL QUANTITIES						
	90 SY					
GUTTER	40 LF					
SIDEWALK	193 SF					
TER	184 SF					
	109 SF					
	15 SY					

ORATION QUANTITIES							
ILLINGS	90 SY						
TER	40 LF						
TE SIDEWALK	193 SF						
ITER	184 SF						
	109 SF						
	15 SY						
)	15 SY						





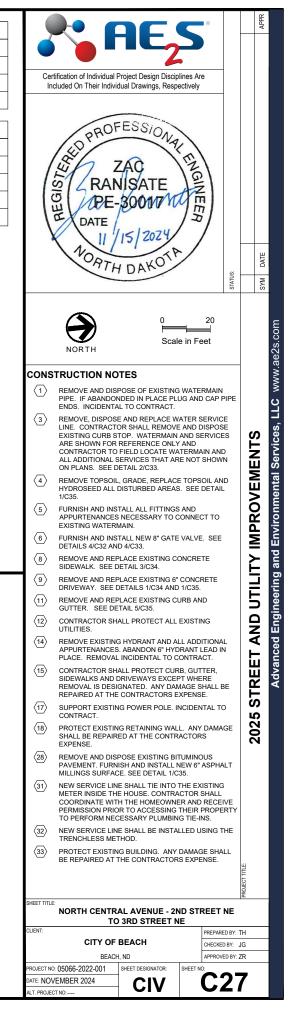
		WAT	ER SERVICE IN	STALLATION		WATERMAIN STR	UCTURE INSTALLATION
	LENGTH	START STATION	END STATION	DESCRIPTION	LENGTH	STRUCTURE	STATION
२	94 LF	245+88.11 - 11.22' L	245+88.23 - 24.50' L	1.0" WM SERVICE	13 LF	8" X 6" TEE CONNECT TO EX.	248+71.29 - 40.52' L
		245+92.28 - 11.18' L	245+91.92 - 27.12' R	1.0" WM SERVICE	38 LF	8" 90° BEND	248+68.29 - 40.51' L
		246+16.17 - 10.96' L	246+17.88 - 60.66' L	1.0" WM SERVICE	51 LF	8" GATE VALVE & BOX	248+68.31 - 36.51' L
		246+69.79 - 10.45' L	246+69.93 - 25.31' L	1.0" WM SERVICE	15 LF		240100.31-30.31 E
		246+74.96 - 10.41' L	246+74.62 - 25.84' R	1.0" WM SERVICE	36 LF	8" X 8" CROSS CONNECT TO EX.	248+68.44 - 8.88' L
		247+12.63 - 10.05' L	247+12.29 - 25.58' R	1.0" WM SERVICE	36 LF	8" GATE VALVE & BOX	248+68.64 - 33.24' R
		248+04.25 - 9.19' L	248+03.92 - 25.77' R	1.0" WM SERVICE	35 LF	8" 90° BEND	248+68.71 - 47.24' R
		248+09.88 - 9.13' L	248+10.04 - 26.42' L	1.0" WM SERVICE	17 LF	8" X 6" TEE CONNECT TO EX.	248+71.71 - 47.23' R
						CONTECT TO EX.	

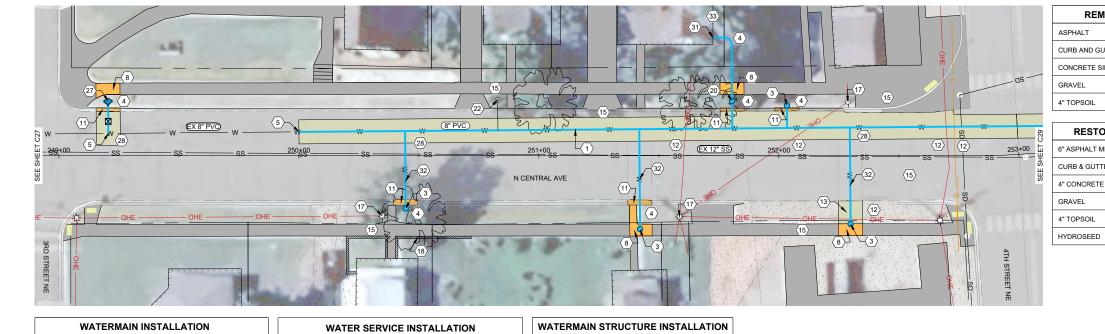
WATERMAIN INSTALLATION					
SIZE	START STATION	END STATION	LENGTH		
8"	248+71.29 - 40.52' L	248+71.71 - 47.23' R	94 LF		

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2750							$ \rightarrow $	2
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	EX SMH STA. 245+16.67 Run: 2763-86 Run: 2763-86					EX SSMH	ZIM: 27	2
2740 EG ELE FG ELE	LEV EV	1						
STATIO	ION 246+	00 247	+00	248	+00			_

MOVAL QUANTITIES				
	165 SY			
GUTTER	90 LF			
SIDEWALK	364 SF			
	48 SY			

ORATION QUANTITIES				
LLINGS	164 SY			
TER	90 LF			
E SIDEWALK	364 SF			
	48 SY			
)	48 SY			





WATERMAIN INSTALLATION						
SIZE	START STATION	END STATION	LENGTH			
8"	250+00.00 - 12.66' L	253+00.00 - 12.04' L	299 LF			

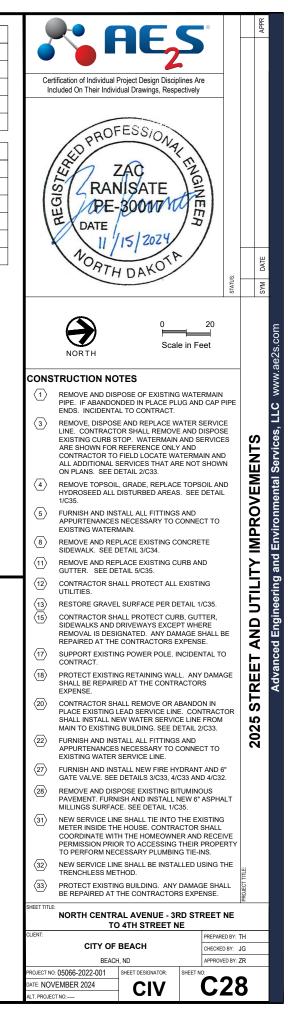
WATER SERVICE INSTALLATION						
START STATION	END STATION	DESCRIPTION	LENGTH			
250+44.25 - 10.28' L	250+44.51 - 21.98' R	1.0" WM SERVICE	32 LF			
251+41.84 - 11.06' L	251+42.17 - 30.58' R	1.0" WM SERVICE	42 LF			
251+80.58 - 11.37' L	251+72.52 - 49.20' L	1.0" WM SERVICE	44 LF			
252+03.42 - 11.56' L	252+03.35 - 20.97' L	1.0" WM SERVICE	9 LF			
252+29.56 - 11.76' L	252+29.89 - 28.46' R	1.0" WM SERVICE	40 LF			

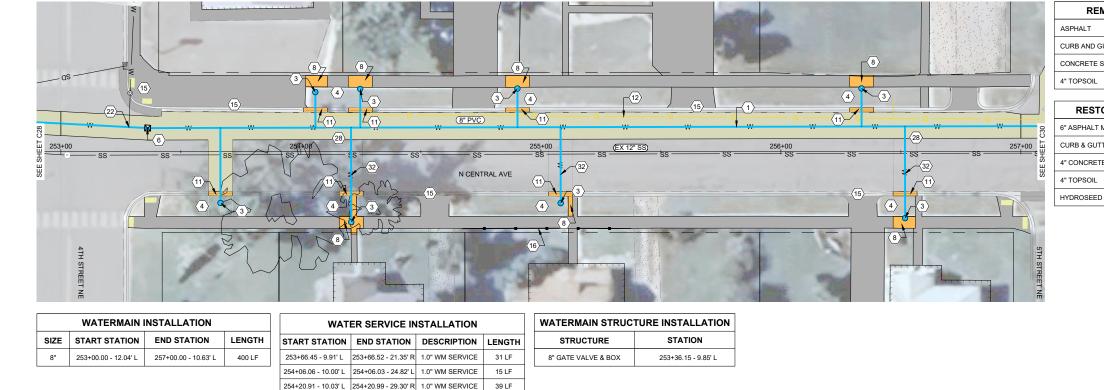
WATERMAIN STRUCTURE INSTALLATION				
STATION				
249+20.61 - 9.30' L				
249+20.57 - 14.30' L				
249+20.50 - 22.69' L				

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		(8" PVC)		~		
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			STING GRADE)			
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MOVAL QUANTITIES				
	367 SY			
GUTTER	50 LF			
SIDEWALK	218 SF			
	96 SF			
	33 SY			

MILLINGS	367 SY
TER	50 LF
E SIDEWALK	218 SF
	96 SF
	33 SY
)	33 SY





16 LF

16 LF

32 LF

16 LF

38 LF

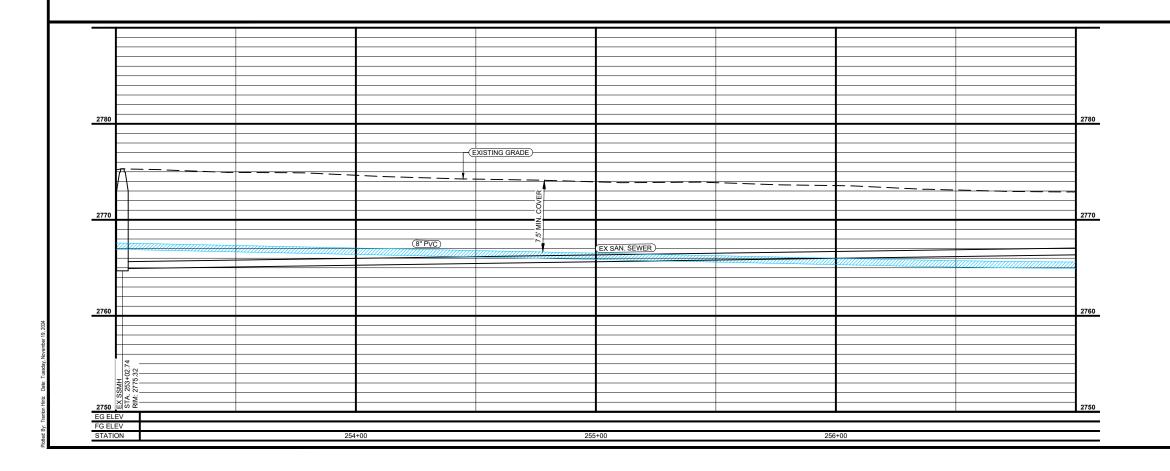
254+24.77 - 10.04' L 254+24.74 - 26.16' L 1.0" WM SERVICE

254+90.25 - 10.18' L 254+90.22 - 26.33' L 1.0" WM SERVICE

255+08.21 - 10.22' L 255+08.28 - 21.43' R 1.0" WM SERVICE

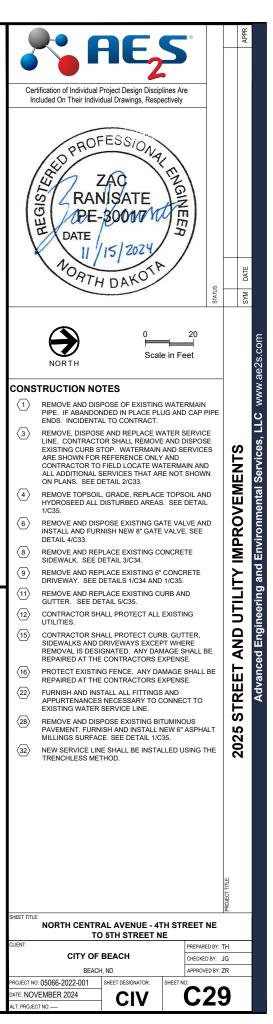
256+33.62 - 10.49' L 256+33.59 - 26.36' L 1.0" WM SERVICE

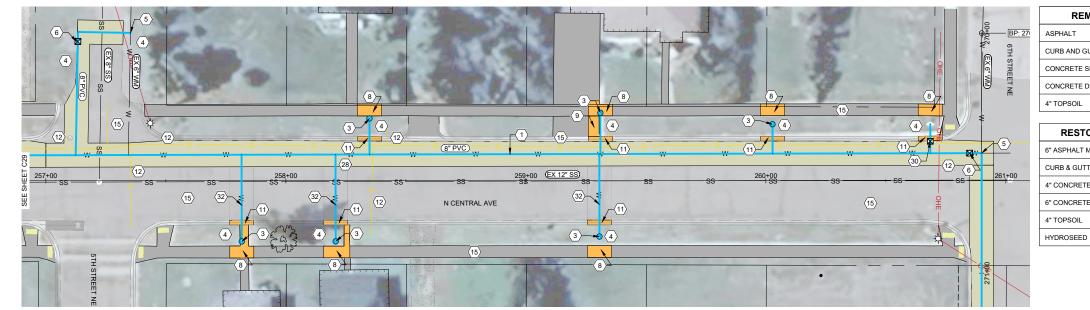
256+51.68 - 10.53' L 256+51.76 - 27.68' R 1.0" WM SERVICE



MOVAL QUANTITIES				
	516 SY			
GUTTER	70 LF			
SIDEWALK	328 SF			
62 SY				

ORATION QUANTITIES				
MILLINGS	516 SY			
TER	70 LF			
E SIDEWALK	328 SF			
	62 SY			
)	62 SY			





	WATERMAIN	INSTALLATION	
SIZE	START STATION	END STATION	LENGTH
8"	257+00.00 - 10.63' L	260+89.90 - 11.49' L	390 LF
8"	257+12.44 - 10.66' L	257+35.30 - 61.57' L	73 LF
6"	260+68.50 - 11.44' L	260+68.47 - 23.53' L	12 LF

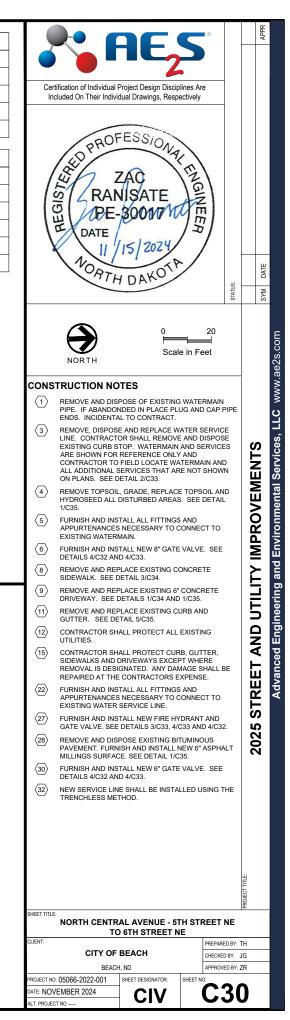
WAT			
START STATION	END STATION	DESCRIPTION	LENGTH
257+81.56 - 10.81' L	257+81.64 - 25.29' R	1.0" WM SERVICE	36 LF
258+20.69 - 10.90' L	258+20.77 - 25.27' R	1.0" WM SERVICE	36 LF
258+34.88 - 10.93' L	258+34.85 - 25.94' L	1.0" WM SERVICE	15 LF
259+30.59 - 11.14' L	259+30.66 - 23.29' R	1.0" WM SERVICE	34 LF
259+31.08 - 11.14' L	259+31.04 - 28.29' L	1.0" WM SERVICE	17 LF
260+02.79 - 11.30' L	260+02.76 - 23.51' L	1.0" WM SERVICE	12 LF

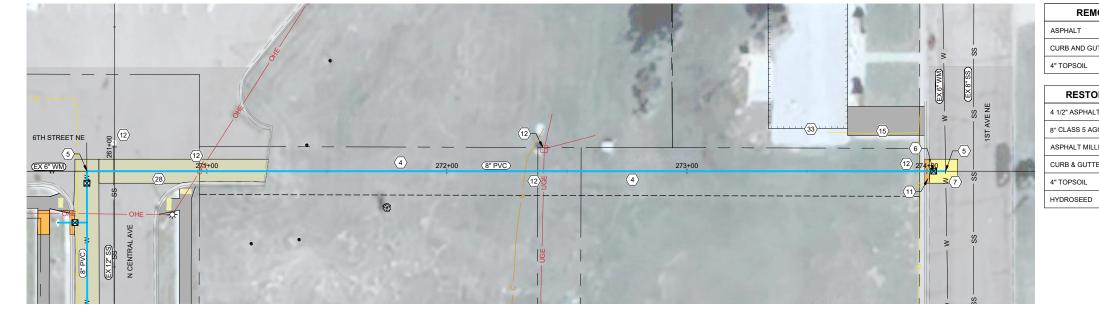
WATERMAIN STRUCTURE INSTALLATION		
STRUCTURE STATION		
8" X 8" TEE	257+12.44 - 10.66' L	
8" GATE VALVE & BOX	257 + 13.34 - 57.99' L	
8" 90° BEND	257+13.42 - 61.99' L	
8" X 6" TEE CONNECT TO EX.	257+35.30 - 61.57' L	
8" X 6" TEE	260+68.50 - 11.44' L	
6" GATE VALVE & BOX	260+68.49 - 16.44' L	
8" GATE VALVE & BOX	260+84.90 - 11.48' L	
8" X 6" TEE CONNECT TO EX.	260+89.90 - 11.49' L	

2780					
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	R	(8" PVC)			
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27750 2750 2750 2750 2750 2750 2750 2750					(

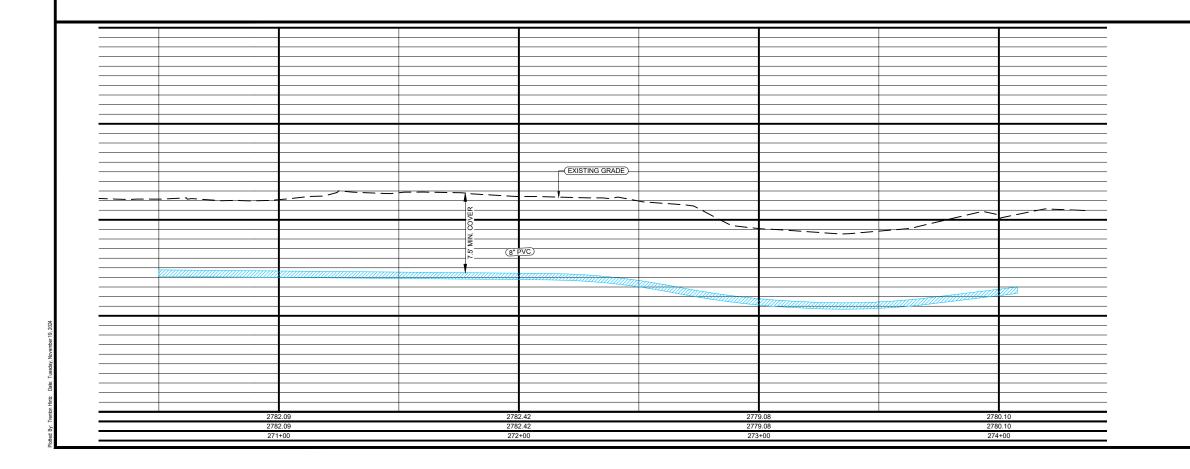
MOVAL QUANTIT	IES
	512 SY
GUTTER	70 LF
SIDEWALK	382 SF
DRIVEWAY	68 SF
	83 SY

MILLINGS	512 SY		
TER	70 LF		
E SIDEWALK	382 SF		
E DRIVEWAY	68 SF		
	83 SY		
)	83 SY		



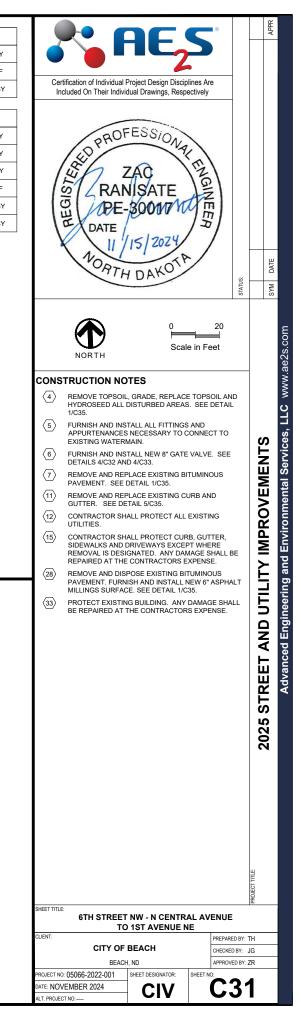


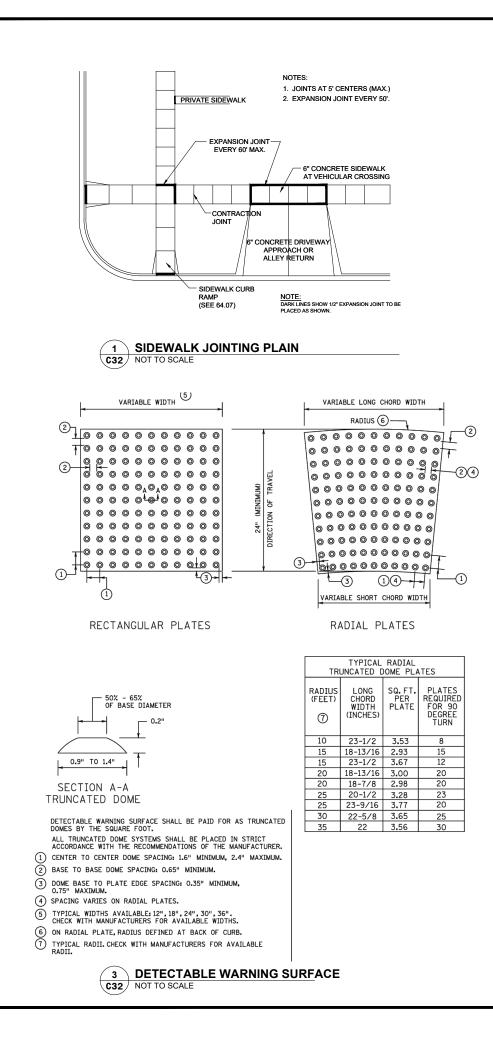
WATERMAIN INSTALLATION					WATERMAIN STRUC	TURE INSTALLATION
SIZE			STRUCTURE	STATION		
8"				8" X 8" TEE CONNECT TO EX	270+50.00 - 0.00' R	
					8" GATE VALVE & BOX	274+02.79 - 0.00' R
					8" X 6" TEE CONNECT TO EX.	274+07.79 - 0.00' R

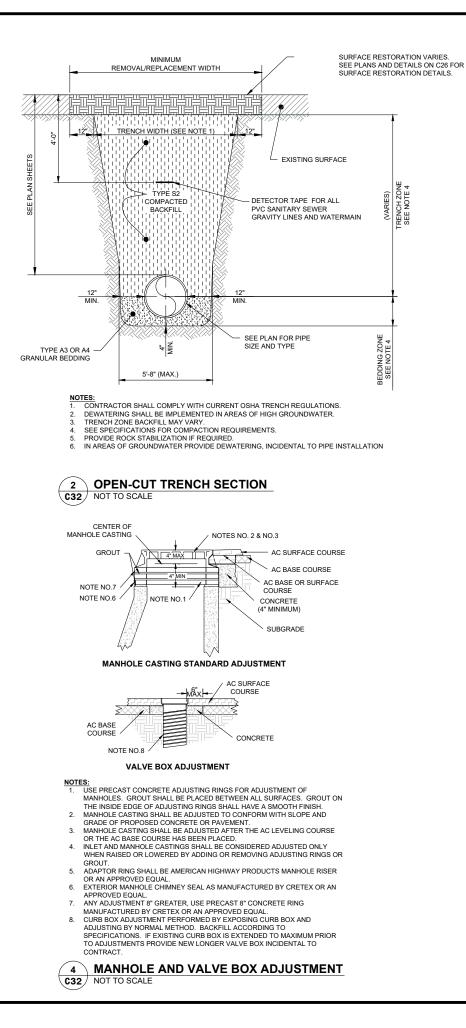


MOVAL QUANTITIES				
	88 SY			
GUTTER	10 LF			
	304 SY			

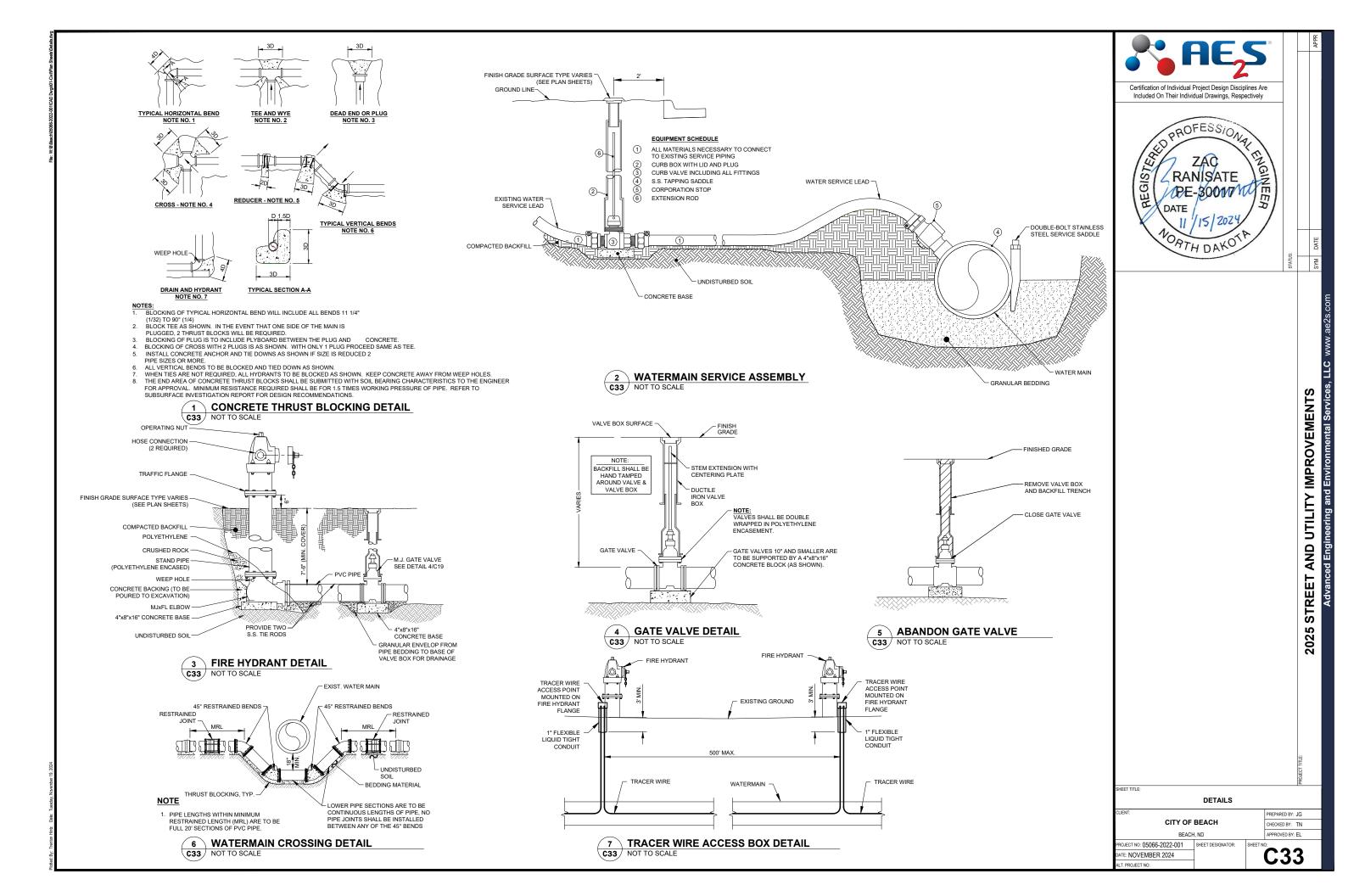
LT	13 SY
GGREGATE BASE	13 SY
LINGS	75 SY
TER	10 LF
	304 SY
I Contraction of the second	304 SY

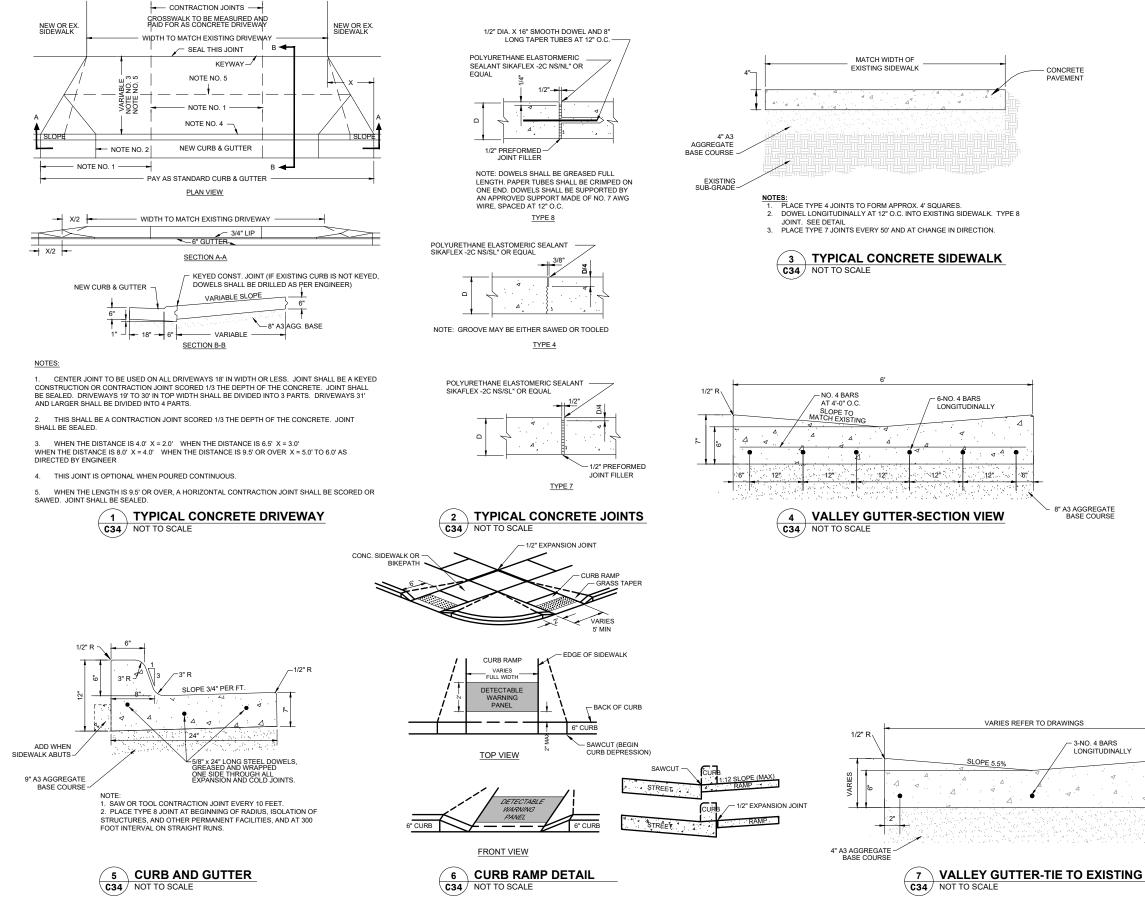


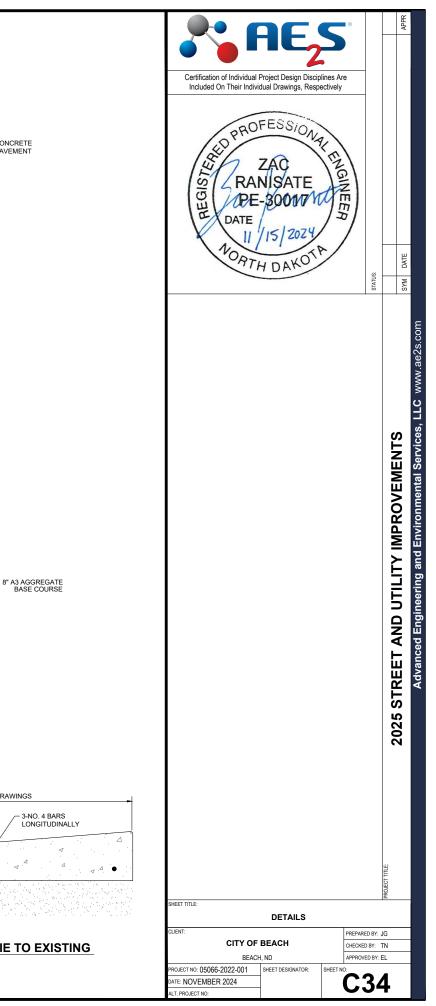


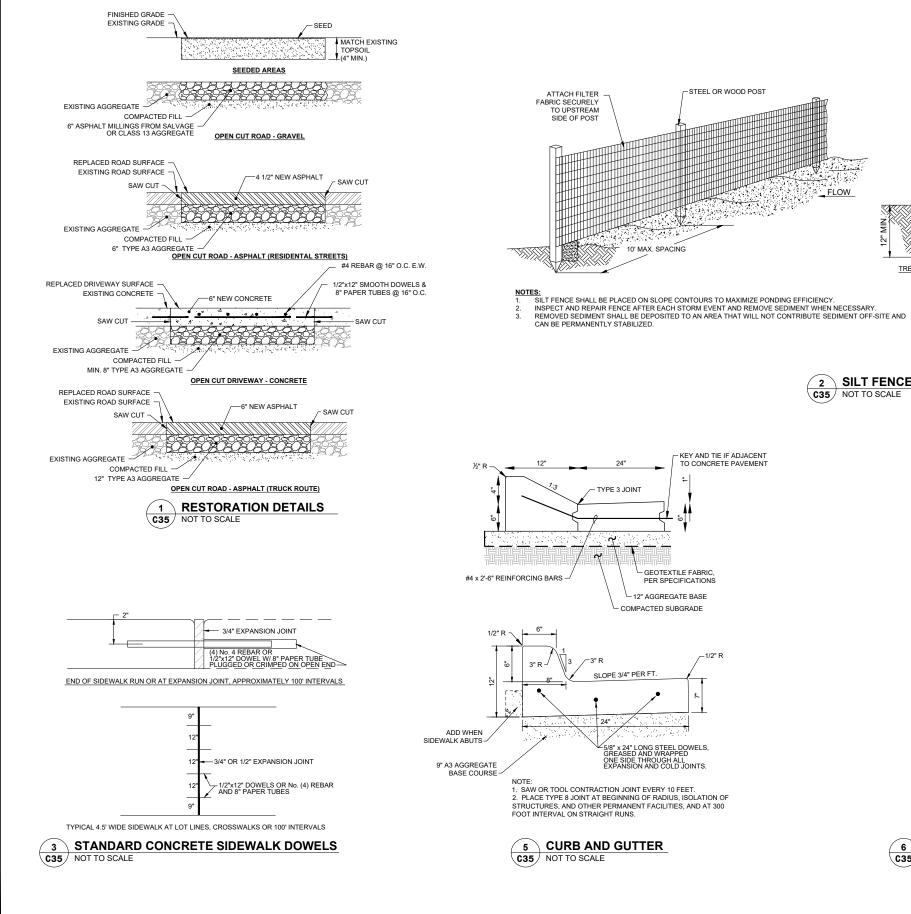


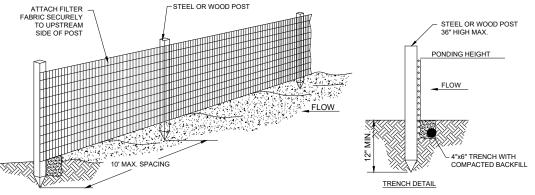
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SHEET TITLE: CLIENT:	DETAILS	PREPARED B	PROJECT TILE TO AND UTILITY IMPROVEMENTS	Advanced Engineering and Environmental Services, LLC www.ae2s.com
CITY OF BEACH PROJECT NO: 05066-2022-001		CHECKED BY APPROVED B SHEET NO:	Y: EL	
DATE: NOVEMBER 2024 ALT. PROJECT NO:		<b>C</b> 3	2	





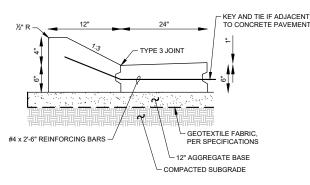


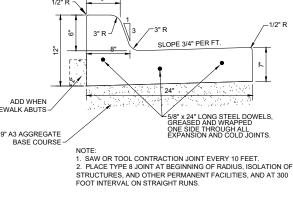






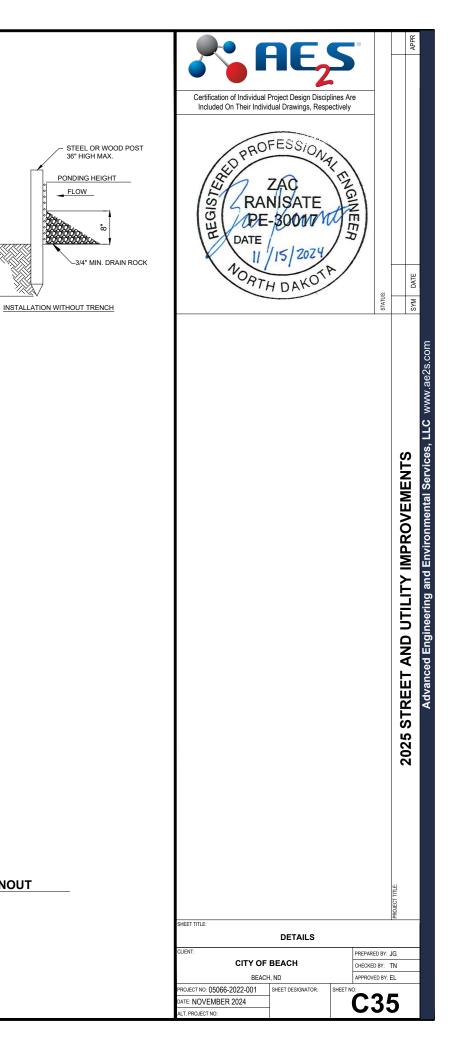
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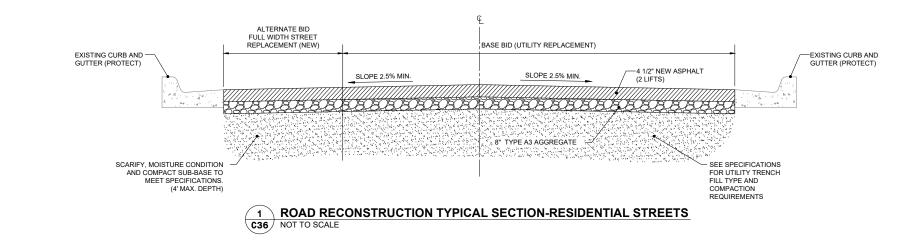




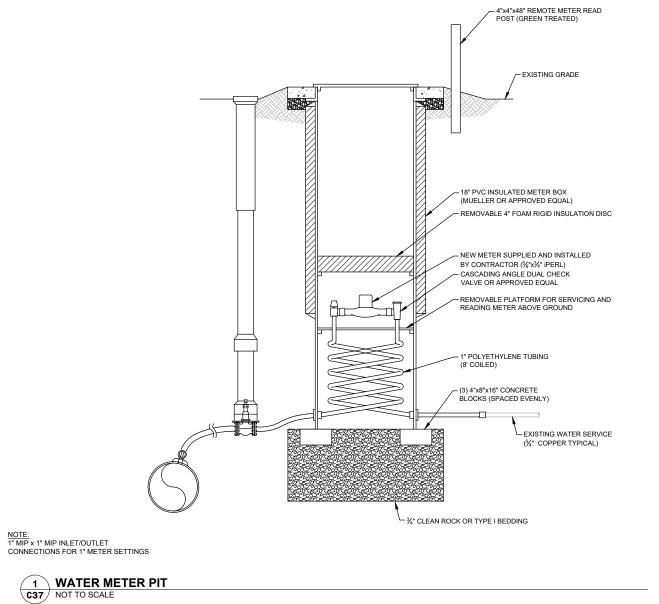




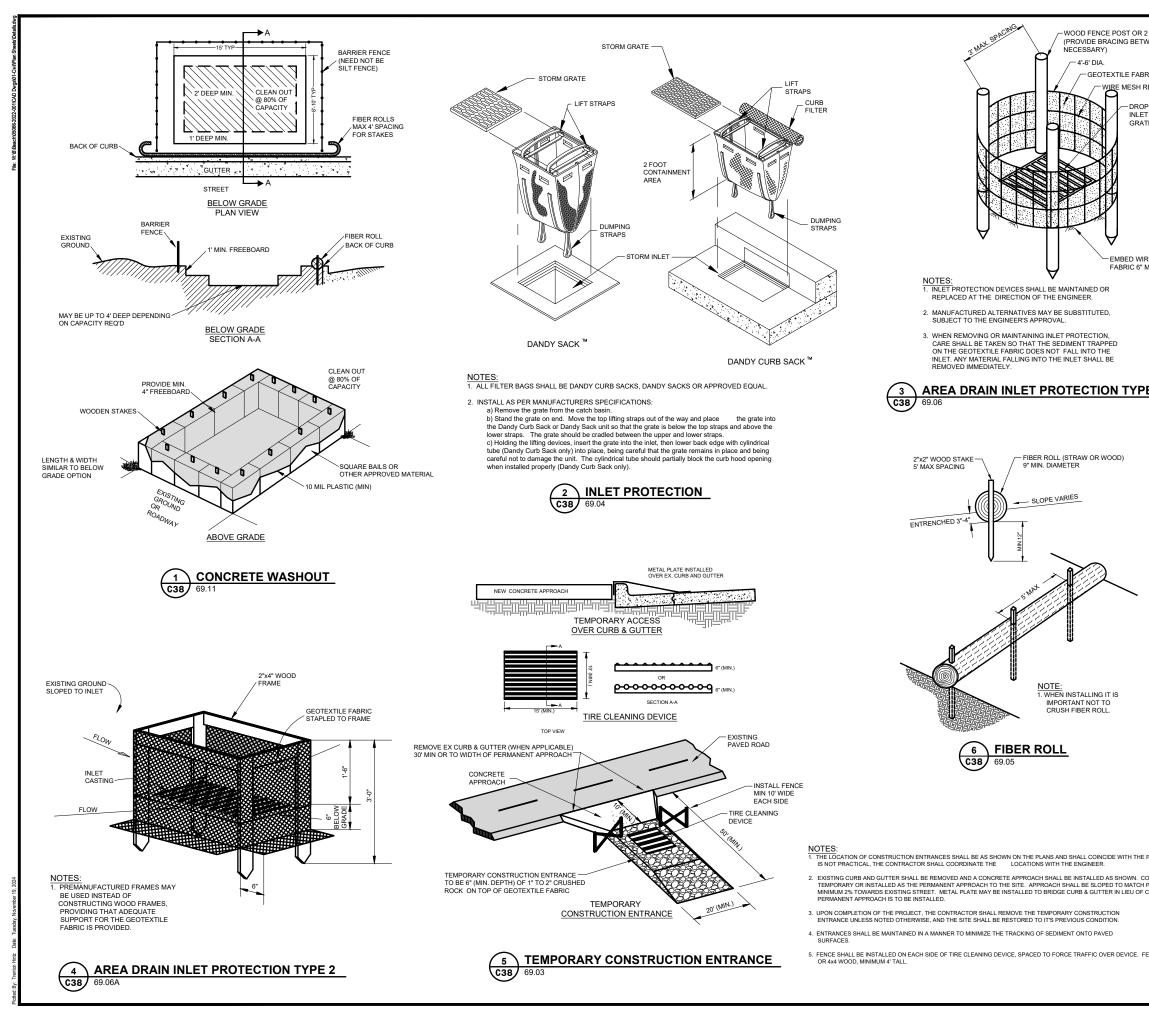




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SHEET TITLE:	DETAILS	PREPARED	PROCEPTINE 2025 STREET AND UTILITY IMPROVEMENTS	Advanced Engineering and Environmental Services, LLC www.ae2s.com
CLIENT: CITY OF BEACH		PREPARED CHECKED E APPROVED	BY: TN	
PROJECT NO: 05066-2022-001 DATE: NOVEMBER 2024	SHEET DESIGNATOR:			
ALT. PROJECT NO:				



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SHEET TITLE:	DETAILS	PREPARED	PROJECT TITLE:		Advanced Engineering and Environmental Services, LLC www.ae2s.com
CITY OF		CHECKED	BY: TN		
BEACH PROJECT NO: 05066-2022-001	I, ND SHEET DESIGNATOR:	APPROVED SHEET NO:		-	
DATE: NOVEMBER 2024 ALT. PROJECT NO:		C	51		



<b>AES</b>	-	APP	-
Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively	-		
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			, LLC www
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SHEET TITLE: DETAILS			
CITY OF BEACH CHECK	ED BY: T	'N	
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ALT. PROJECT NO:						

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