

CITY OF TILLAMOOK

SEWER REHABILITATION PROJECT #2

TILLAMOOK, OREGON
 CDBG PROJECT NO. P13013
 JULY 2016 - BID DOCUMENTS

**"AS BUILT
 DRAWING"**
 DATE 8/01/2017 BY D. AYERS

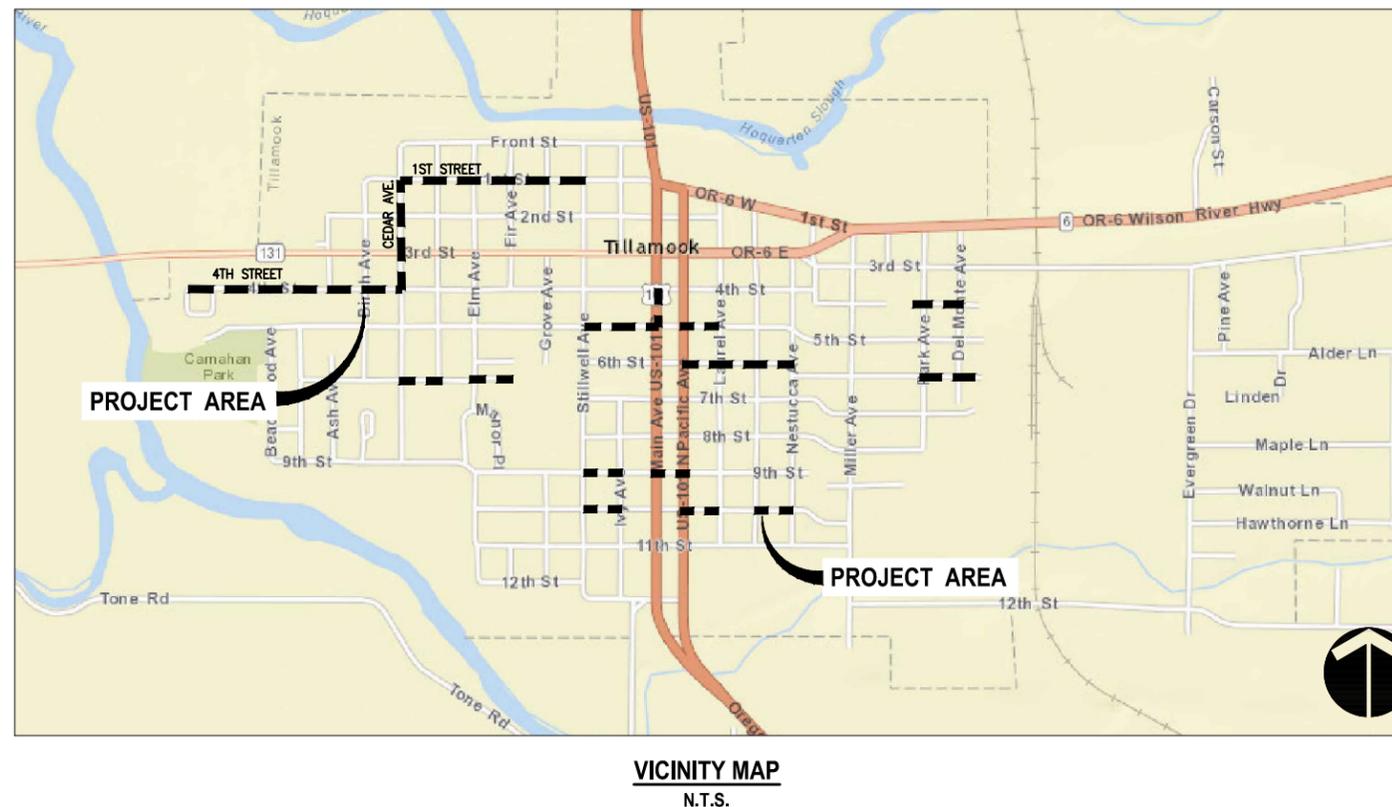
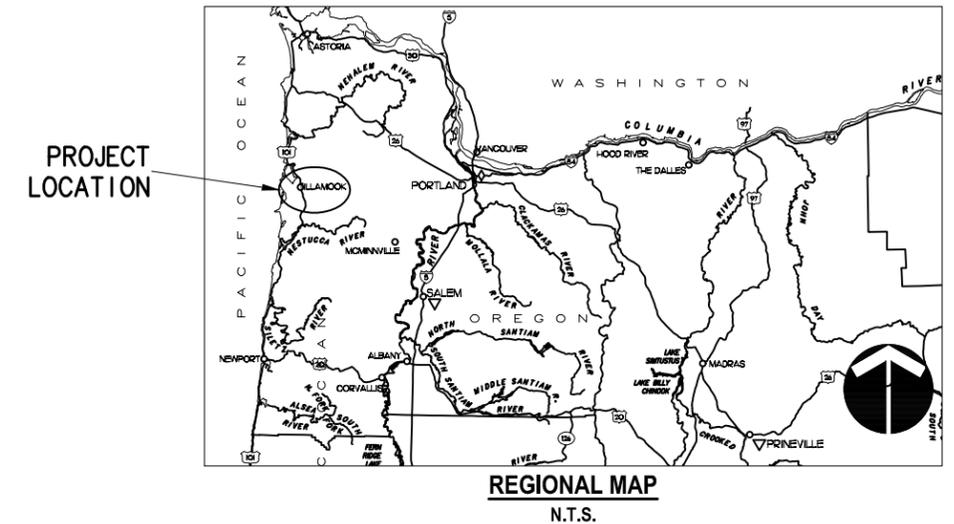
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WORK UNDER THIS CONTRACT WILL BE FUNDED IN ITS ENTIRETY WITH FEDERAL GRANT FUNDS FROM THE OREGON COMMUNITY DEVELOPMENT BLOCK GRANT PROGRAM.



Initial Issue by :	
Checked REVISIONS	
BY	
DATE	
NO.	

CITY OF TILLAMOOK
 TILLAMOOK SEWER REHABILITATION PROJECT PHASE 2
 COVER
 TILLAMOOK, TILLAMOOK COUNTY, OR

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 Hansen Global Partner
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GENERAL NOTES

- ATTENTION CONTRACTORS: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THESE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. (NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503) 232-1897 OR 1-800-332-2344). AT LEAST TWO (2) BUSINESS DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE OREGON UTILITY NOTIFICATION CENTER OF THE DATE AND LOCATION OF THE PROPOSED CONSTRUCTION, AND THE TYPE OF WORK TO BE PERFORMED.
- ALL EXISTING FACILITIES TO BE MAINTAINED IN-PLACE BY THE CONTRACTOR UNLESS OTHERWISE SHOWN OR DIRECTED. CONTRACTOR TO LEAVE EXISTING FACILITIES IN AN EQUAL OR BETTER THAN ORIGINAL CONDITION AND TO THE SATISFACTION OF THE ENGINEER.
- IN ACCORDANCE WITH O.R.S.290.140, IF THE CONTRACTOR FINDS IT NECESSARY TO INTERFERE WITH OR PAVE OVER ANY ESTABLISHED PUBLIC LAND SURVEY CORNER OR ITS ACCESSORIES, WITHIN THE PROJECT LIMITS, THE CONTRACTOR SHALL NOTIFY THE COUNTY SURVEYOR PRIOR TO DOING SO.
- IN ACCORDANCE WITH O.R.S.290.150, CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL SURVEY MONUMENTS DISTURBED OR DESTROYED DURING CONSTRUCTION. REPLACING THE SURVEY MONUMENTS SHALL BE DONE BY A REGISTERED LAND SURVEYOR AT THE EXPENSE OF THE CONTRACTOR.
- EXISTING UTILITY LOCATIONS SHOWN (PLAN & PROFILE) ARE APPROXIMATE ONLY. NO PREDESIGN POTHOLING WAS DONE TO ESTABLISH THESE LOCATIONS. CONTACT UTILITY COMPANIES FOR PREMARKING. CONTRACTOR TO POTHOLE EXISTING UTILITIES AT CONNECTION & CROSSING LOCATIONS TO VERIFY DEPTH, LOCATION & TYPE OF EXISTING WATER MAIN, SEWER MAIN & STORM MAIN PRIOR TO ORDERING CONNECTION MATERIALS. NOTIFY ENGINEER IMMEDIATELY IF EXISTING CONDITIONS VARY FROM THAT SHOWN. NOTIFY ENGINEER 24 HOURS PRIOR TO POTHOLING.
- CONTRACTOR SHALL VERIFY ALL CONDITIONS ON THE JOB SITE INCLUDING ALL DIMENSIONS, GRADES, ELEVATIONS, EXTENT AND COMPATIBILITY TO THE EXISTING SITE CONDITIONS, AND WITH THE WORK DESCRIBED ON THE CONTRACT DRAWINGS. ANY DISCREPANCIES OR UNEXPLAINED CONDITIONS THAT AFFECT OR CHANGE THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY. CONTRACTOR SHALL NOT PROCEED WITH ANY OF THE WORK IN THE AREA OF DISCREPANCIES UNTIL ALL SUCH DISCREPANCIES ARE RESOLVED. IF THE CONTRACTOR CHOOSES TO DO SO, THEN IT IS UNDERSTOOD THAT HE SHALL BE PROCEEDING AT HIS OWN RISK AND INCUR ALL COST, IF ANY, TO RESOLVE THE ISSUE TO THE SATISFACTION OF THE ENGINEER.
- TECHNICAL SPECIFICATIONS FOR CONSTRUCTION ARE TO FOLLOW THE CONTRACT SPECIFICATIONS AND THE MOST CURRENT EDITION OF THE IBC, UPC, OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION (ODOT/APWA) SHALL BE REFERENCED WHERE CONTRACT SPECIFICATIONS DO NOT ADDRESS A SPECIFIC ITEM. SEE SPECIFICATIONS FOR CONSTRUCTION METHODS AND OTHER NOTES PERTINENT TO THIS PROJECT.
- UPON COMPLETION OF CONSTRUCTION OF THE PROJECT, CONTRACTOR TO SUBMIT RECORD DRAWINGS TO THE ENGINEER OR CITY. THE PROJECT SHALL NOT BE CONSIDERED COMPLETE UNTIL RECORD DRAWINGS ARE ACCEPTED BY CITY.
- CONTRACTOR MAY ENCOUNTER HIGH GROUND-WATER TABLE AT SITE LOCATION. HIGH GROUND-WATER IN COMBINATION WITH BEACH SAND SUBGRADE WILL CAUSE A "QUICK" EFFECT, WHICH WILL RESULT IN THE DESTABILIZATION OF ADJACENT SOILS, UTILITIES AND STRUCTURES. CONTRACTOR SHALL ANTICIPATE AND COORDINATE ANY AND ALL DEWATERING TECHNIQUES NECESSARY AND/OR REQUIRED TO COMPLETE PROJECT AS SPECIFIED IN THE TECHNICAL SPECIFICATIONS. CONTRACTOR SHALL BEAR ALL COSTS PERTAINING TO DEWATERING EFFORTS.

ROADWORK/SITWORK

- CONTRACTOR SHALL RESTORE ALL SURFACES TO MATCH EXISTING AND ADJACENT GRADES.
- ALL DESIGN ELEVATIONS SHOWN SHALL BE CONSIDERED TO BE FINISH SURFACE ELEVATIONS UNLESS OTHERWISE NOTED. ALL SURFACES SHALL BE GRADED SMOOTH AND FREE OF IRREGULARITIES THAT COULD ACCUMULATE SURFACE WATER.
- THE CONTRACTOR SHALL HAVE A SUFFICIENT NUMBER OF COMPACTION TESTS PERFORMED TO MEET SPECIFICATION REQUIREMENTS AT THE CONTRACTOR'S EXPENSE. TESTS SHALL BE PERFORMED BY A QUALIFIED TESTING AGENCY AND WRITTEN RESULTS SHALL BE PROVIDED TO THE APPROPRIATE AGENCY. SHOULD COMPACTION REQUIREMENTS NOT BE MET, CONTRACTOR SHALL RECOMPACT AND PAY ALL ADDITIONAL TESTING COSTS RELATED TO THE RECOMPACTION.

SIGNAGE

- CONTRACTOR SHALL ERECT AND MAINTAIN BARRICADES, WARNING SIGNS, TRAFFIC CONES PER ODOT REQUIREMENTS. ACCESS TO EXISTING DRIVEWAYS AND BUSINESSES TO BE MAINTAINED AT ALL TIMES. CONTRACTOR SHALL REPLACE ALL SIGNS REMOVED DURING CONSTRUCTION. CITY TO APPROVE INSTALLATION.

WATER

- INSPECTION BY ENGINEER OR CITY REPRESENTATIVE OF WATER SYSTEMS PRIOR TO BACKFILL SHALL BE REQUIRED.
- CONTRACTOR TO COORDINATE PLACEMENT OF WATER SERVICE METER WITH CITY PUBLIC WORKS.
- WATERLINE FITTINGS MUST BE FULLY RESTRAINED BY THRUST BLOCKS AND APPROVED RESTRAINT SYSTEM UNLESS SPECIFICALLY OTHERWISE INDICATED ON THESE DOCUMENTS.
- CONNECTION OF NEW WATER SERVICE TO EXISTING MAIN SHALL BE COORDINATED WITH CITY STAFF. ALL WATER MAIN VALVES SHALL ONLY BE OPERATED BY CITY PERSONNEL. NO EXCEPTIONS UNLESS AUTHORIZED IN WRITING BY CITY.
- POTHOLE EXISTING WATER PIPES FOR CONNECTION OF NEW WATER SYSTEM. ALL INVERT ELEVATIONS, PIPE SIZES AND MATERIALS ARE TO BE MEASURED BY CONTRACTOR PRIOR TO ORDERING ANY MATERIALS FOR THE WATER SYSTEM.

STORM & SEWER

- POTHOLE EXISTING STORM AND SEWER PIPES FOR CONNECTION OF NEW SYSTEMS. ALL INVERT ELEVATIONS, PIPE SIZES AND MATERIALS ARE TO BE MEASURED BY CONTRACTOR PRIOR TO ORDERING ANY MATERIALS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL CATCH BASINS, CLEANOUTS, MANHOLES, VAULTS, ETC., THAT ARE AFFECTED BY CONSTRUCTION AND/OR FILL TO FINISH GRADE. STORM DRAIN INLET STRUCTURES SHALL BE ADJUSTED SO WATER FLOWS INTO THE STRUCTURE WITHOUT PONDING.
- THESE PLANS INCLUDE REHABILITATION OF EXISTING PIPELINES VIA CURED IN PLACE PIPE (CIPP) LINING METHOD. THE AREAS WHERE CIPP REHABILITATION IS SPECIFIED ARE BASED ON THE LOCATIONS SHOWN IN THE SEPTEMBER 2013 FEASIBILITY STUDY PREPARED BY NW ENGINEERS. PREVIOUS INSPECTION VIDEOS AND REPORTS OF THESE PIPELINE SEGMENTS HAVE NOT BEEN MADE AVAILABLE FOR OTAK TO REVIEW.

DEMOLITION

- CONTRACTOR TO DEVELOP A CONSTRUCTION PHASING PLAN AND PROVIDE IT TO THE CITY AND ENGINEER PRIOR TO BEGINNING CONSTRUCTION. PLAN SHALL INDICATE STAGES OF DEMOLITION AND DURATION OF OUTAGES. ALL OUTAGES ARE TO BE KEPT TO A MINIMUM.

TRAFFIC CONTROL

- CONTRACTOR SHALL DEVELOP AND SUBMIT A TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL. THE TRAFFIC CONTROL PLAN SHALL DETAIL KEY INTERSECTIONS WITHIN THE PROJECT ZONE. SEE SPECIFICATIONS SECTION 00225 FOR ADDITIONAL DETAILS AND REQUIREMENTS.

LEGEND

EXISTING		PROPOSED
	CATCH BASIN	
	WOODEN POST	
	SANITARY SEWER MANHOLE	
	MULTI-USE POWER POLE	
	GUY WIRE	
	AREA DRAIN	
	POWER RISER	
	WATER VALVE	
	WATER METER	
	WATER FIRE HYDRANT	
	COMMUNICATIONS RISER	
	CONTROL POINT	
	STORM DRAIN MANHOLE	
	SANITARY SEWER CLEANOUT	
	MAIN SANITARY SEWER LINE	
	SANITARY SEWER LATERAL	
	COMMUNICATIONS LINE	
	UNDERGROUND ELECTRIC LINE	
	STORM SEWER LINE	
	WATER LINE	
	EDGE OF ASPHALT	
	EDGE OF GRAVEL	
	RIGHT OF WAY AND TAXLOTS	
	SEDIMENT FENCE	
	GRAVEL RESTORATION	
	CONCRETE RESTORATION	
	LAWN RESTORATION	

SURVEY NOTES

NARRATIVE:

THE PURPOSE OF THIS SURVEY IS TO PROVIDE THE CITY OF TILLAMOOK WITH A TOPOGRAPHIC MAP WITH EMPHASIS ON THE EXISTING SANITARY SEWER LINE AND CORRESPONDING UTILITY CROSSINGS. SURVEY DATA WAS COLLECTED VIA TERRESTRIAL METHODS AND GPS RTK OBSERVATIONS. FIELD TIES TO UTILITIES ARE BASED ON PAINT MARKS OF UTILITY LOCATE ON CALL. TIES WERE MADE WITH TRIMBLE S6 TOTAL STATION TERRESTRIAL OBSERVATIONS BETWEEN THE DATES OF JULY 30-AUGUST 08, 2014.

THE UTILITY COMPANIES WHO PLACE THE PAINT MARKS DO NOT GUARANTEE THEIR SURFACE LOCATES TO BE FREE OF ERRORS OR OMISSIONS, THEREFORE OTAK RESERVES THE SAME LIMITATIONS.

BASIS OF BEARING:

THE BASIS OF BEARING FOR THIS PROJECT IS GRID NORTH. THE HORIZONTAL DATUM IS NAD83(CORS 11) EPOCH 2010.00, PROJECTED ONTO OREGON NORTH ZONE (3601) STATE PLANE (GRID) COORDINATES IN INTERNATIONAL FEET. BEARINGS SHOWN HERE ON ARE GRID.

THE VERTICAL DATUM IS NAVD88(GEOD 12), HOLDING NGS BENCH MARK "C 223" (PID: RD1010) PUBLISHED ORTHOMETRIC ELEVATION OF 55.45'

ABBREVIATIONS

ADA = AMERICANS WITH DISABILITIES ACT	IPS = IRON PIPE SIZE
AVE = AVENUE	L = LENGTH
BNSF = BURLINGTON NORTHERN SANTA FE	LF = LINEAR FEET
BO = BLOW OFF	MAX = MAXIMUM
BTM = BOTTOM	MH = MANHOLE
CARV = COMBINATION AIR RELEASE VALVE	MIN = MINIMUM
CB = CATCH BASIN	MJ = MECHANICAL JOINT
CIPP = CURED IN PLACE PIPE	N = NORTH, NORTHING
CL = CENTERLINE	NIC = NOT IN CONTRACT
CONC = CONCRETE	OC = ON CENTER
CONN = CONNECTION	OHW = ORDINARY HIGH WATER
CSBC = CRUSHED SURFACING BASE COURSE	PE = PLAIN END
DEC = DECIDUOUS	PI = POINT OF INTERSECTION
DI = DUCTILE IRON	PIP = PLASTIC IRRIGATION PIPE
DIP = DUCTILE IRON PIPE	PL = PIPELINE
DBH = DIAMETER AT BREST HEIGHT	PS = PUMP STATION
DIA = DIAMETER	PT = POINT OF TANGENCY
E = EAST, EASTING	PVC = POLYVINYL CHLORIDE
ELEV = ELEVATION	R = RADIUS
EOG = EDGE OF GRAVEL	REQ'D = REQUIRED
EOP = EDGE OF PAVEMENT	ROW = RIGHT OF WAY
EX = EXISTING	R.R. = RAILROAD
FA = FORCED AIR	S = SLOPE
FF = FINISHED FLOOR ELEVATION	SS = SANITARY
FG = FINISHED GRADE	SD = STORM DRAIN
FL = FLANGE	SDR = STANDARD DIMENSION RATIO
FM = FORCE MAIN	STA = STATION
FT = FEET	STM = STORM
HMA = HOT MIX ASPHALT	TBW = TOP BACK OF WALL
HORIZ = HORIZONTAL	TYP = TYPICAL
IE = INVERT ELEVATION	VERT = VERTICAL

UTILITY PROVIDERS

- ONE CALL CENTER - CALL BEFORE YOU DIG!

(800) 332-2344 (ONE-CALL CENTER)
(877) 668-4001 (ADMINISTRATIVE)

ATTENTION EXCAVATORS: OREGON LAW REQUIRES COMPLIANCE WITH OAR 952-001-0010 THROUGH OAR 952-001-0090. THESE RULES MAY BE OBTAINED BY CALLING OREGON UTILITY NOTIFICATION CENTER, (503) 232-1987. CONTRACTOR MUST NOTIFY THE CENTER AT LEAST TWO (2) WORKING DAYS BEFORE, BUT NOT MORE THAN TEN (10) DAYS BEFORE COMMENCING EXCAVATION.

- WATER/SEWER/STORM

TIM LYDA - PUBLIC WORKS DIRECTOR
210 LAUREL AVE.
TILLAMOOK, OREGON 97141
(503) 374-1826 (OFFICE)
(503) 812-8802 (CELL)

- ELECTRICITY

TILLAMOOK PEOPLE'S UTILITY DISTRICT
DEREK MICKELSON
1115 PACIFIC AVE, TILLAMOOK, OR 97141
(503) 842-2535 (OFFICE)
(503) 815-8629 (ENGINEERING DIRECT)
(800) 422-2535 (TOLL FREE)
(800) 842-2122 (EMERGENCY)

- TELEPHONE

CENTURYLINK
SCOTT SCHIMINESKY
PACIFIC CITY, OR 97141
(503) 965-9918

- CABLE TELEVISION

CHARTER COMMUNICATIONS
1014 PACIFIC AVE, TILLAMOOK, OR 97141
(888) 438-2427 (OFFICE)

- GAS

NORTHWEST NATURAL GAS
ANDREW YOUNG, P.E.
220 NW 2ND AVE.
PORTLAND, OR 97209
(503) 226-4211 (OFFICE)
(360) 281-6169 (CELL)

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DATE 8/01/2017 BY D. AYERS

NO.	DATE	BY	Checked/Approval	REVISIONS	Initial Issue by :

CITY OF TILLAMOOK
TILLAMOOK SEWER REHABILITATION PROJECT PHASE 2
GENERAL NOTES & LEGEND
TILLAMOOK, TILLAMOOK COUNTY, OR

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Project No. 17615

G02

Sheet No. 2 of 47

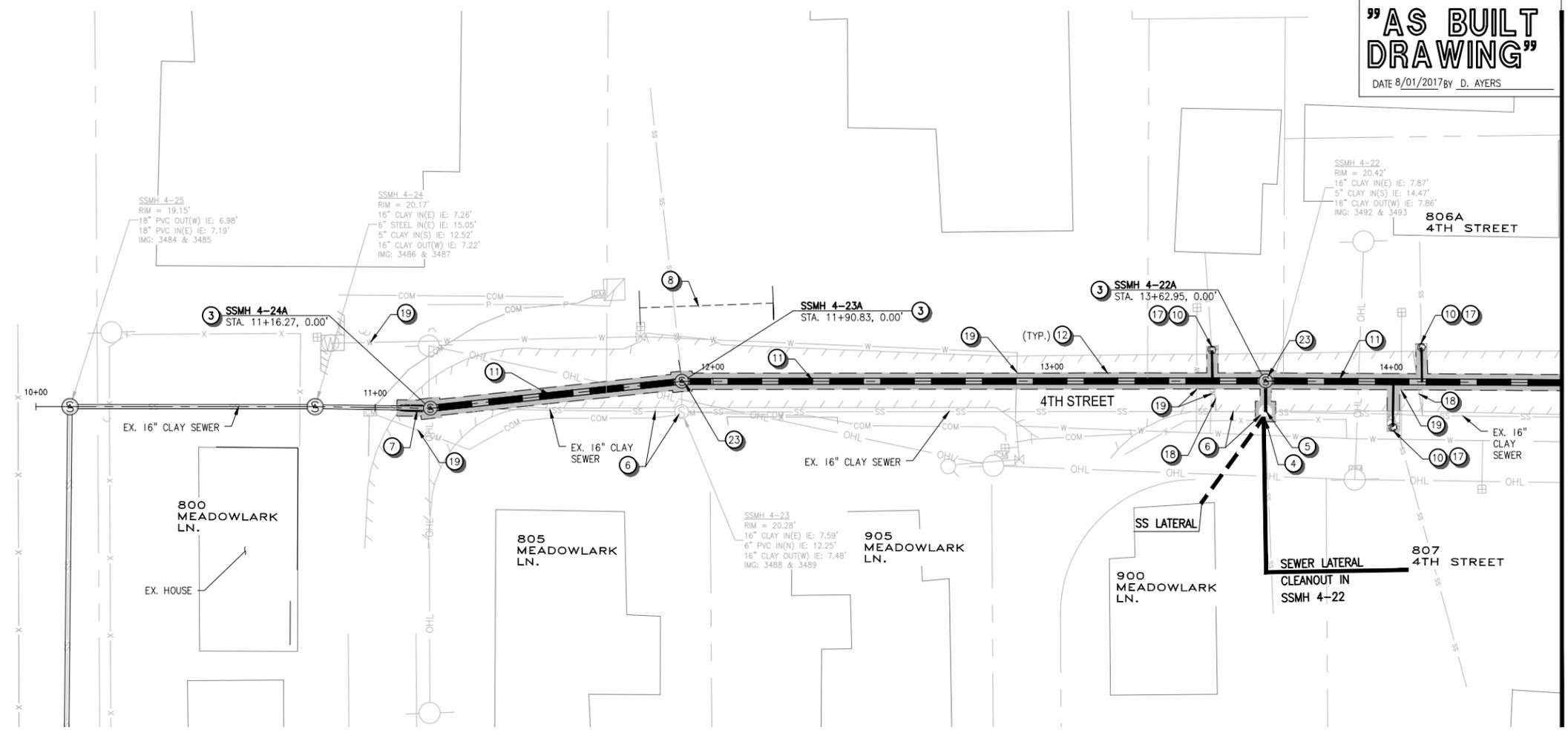
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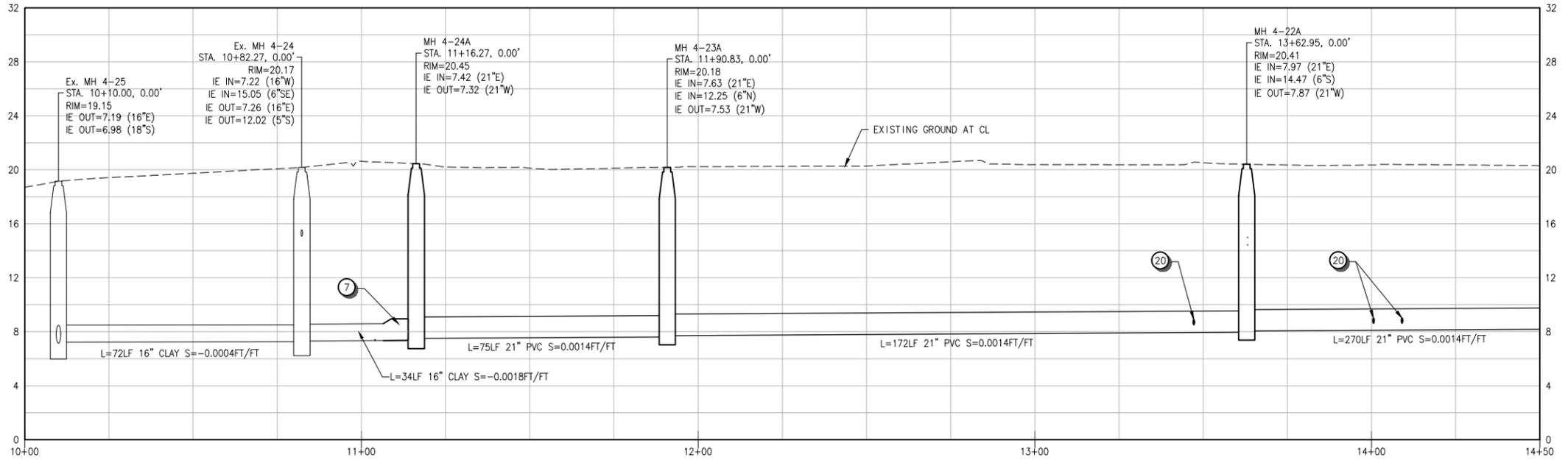
- GENERAL NOTES**
- SEE SURVEY CONTROL PLANS ("SC" SHEETS) FOR DEFINITION OF CONSTRUCTION BASELINE STATIONING AND VERTICAL CONTROL
 - LOCATIONS OF LATERALS ARE APPROXIMATE AND ARE BASED ON MEASUREMENTS REPORTED IN TV INSPECTION VIDEOS
 - SEE SHEET D05 FOR GRIND AND INLAY PAVEMENT RESTORATION EXTENTS

- EROSION CONTROL NOTES**
- INLET PROTECTION PER STD DWG RD1015 ON SHEET D04
 - SEDIMENT FENCE PER STD DWG RD1040 ON SHEET D04

- KEY NOTES**
- INSTALL NEW 48-INCH SEWER MANHOLE PER COT STD DWG 010 ON SHEET D01.
 - INSTALL 6" PVC PIPE BETWEEN EXISTING LATERAL AND NEW SEWER MANHOLE. CUT AND CONNECT TO EXISTING LATERAL WITH FERNICO COUPLING.
 - ROUTE 6" PVC PIPE THROUGH ABANDONED MANHOLE. REMOVE MANHOLE SECTIONS ABOVE THE INVERT OF 6" PVC PIPE.
 - FILL AND ABANDON EXISTING MANHOLE AND GRAVITY SEWER PIPES IN PLACE FOLLOWING ACCEPTANCE OF NEW GRAVITY SEWER.
 - CONNECT NEW 21" PVC PIPE TO EX. 16" CLAY PIPE WITH 21"x16" PVC ECCENTRIC REDUCER. POT HOLE AND VERIFY OUTER DIAM. OF EX. CLAY PIPE PRIOR TO ORDERING REDUCER. PLUG, FILL, AND ABANDON EX. 16" SEWER PIPE TO THE EAST.
 - COORDINATE WITH SHERIDAN SQUARES APARTMENTS FOR USE OF EXISTING GATE AS TRAFFIC DETOUR AROUND CONSTRUCTION AREA IN 4TH STREET. INSTALL TEMPORARY CONCRETE APRON ACROSS LANDSCAPE AREA AND RESTORE TO EXISTING CONDITIONS AFTER DETOUR IS COMPLETE.
 - INSTALL SANITARY SEWER CLEANOUT AT RIGHT-OF-WAY LINE PER DWG 500 ON SHEET D02 AND CONNECT TO EXIST LATERAL.
 - CONSTRUCT NEW GRAVITY SEWER BY OPEN CUT CONSTRUCTION METHODS PER COT STD DWG 590 ON SHEET D02. SEE PROFILE FOR PROPOSED PIPE SIZE AND MATERIAL TYPE.
 - SAWCUT EXISTING ASPHALT PAVEMENT FOR TRENCHING AND RESTORATION. RESURFACE PER COT STD DWG 600 ON SHEET D02.
 - RESURFACE DISTURBED LANDSCAPE AND/OR SIDEWALK FEATURES TO MATCH EXISTING CONDITIONS. SEE COT STD DWG 590 ON SHEET D02 FOR BACKFILL REQUIREMENTS AND COT STD DWGS ON SHEET D03 FOR CURB AND SIDEWALK DETAILS.
 - PLUG AND ABANDON EXISTING SEWER LATERAL.
 - EXISTING UTILITY TO REMAIN. CONTRACTOR TO PROTECT AND SUPPORT DURING CONSTRUCTION.
 - INSTALL INSERT-A-TEE, REMOVE EXISTING LATERAL AND REPLACE WITH 4" PVC PIPE FROM REHABILITATED SEWER MAIN TO RIGHT-OF-WAY LINE. PER COT STD DWGS 530 AND 590 ON SHEET D02.
 - INSTALL INSIDE DROP FOR LATERAL PIPES 18" OR MORE ABOVE MANHOLE CHANNEL PER COT STD DWG 090 ON SHEET D01.

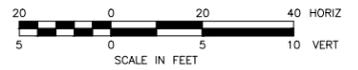


PLAN



PROFILE

MATCHLINE STA. 14+50 SEE SHEET C02



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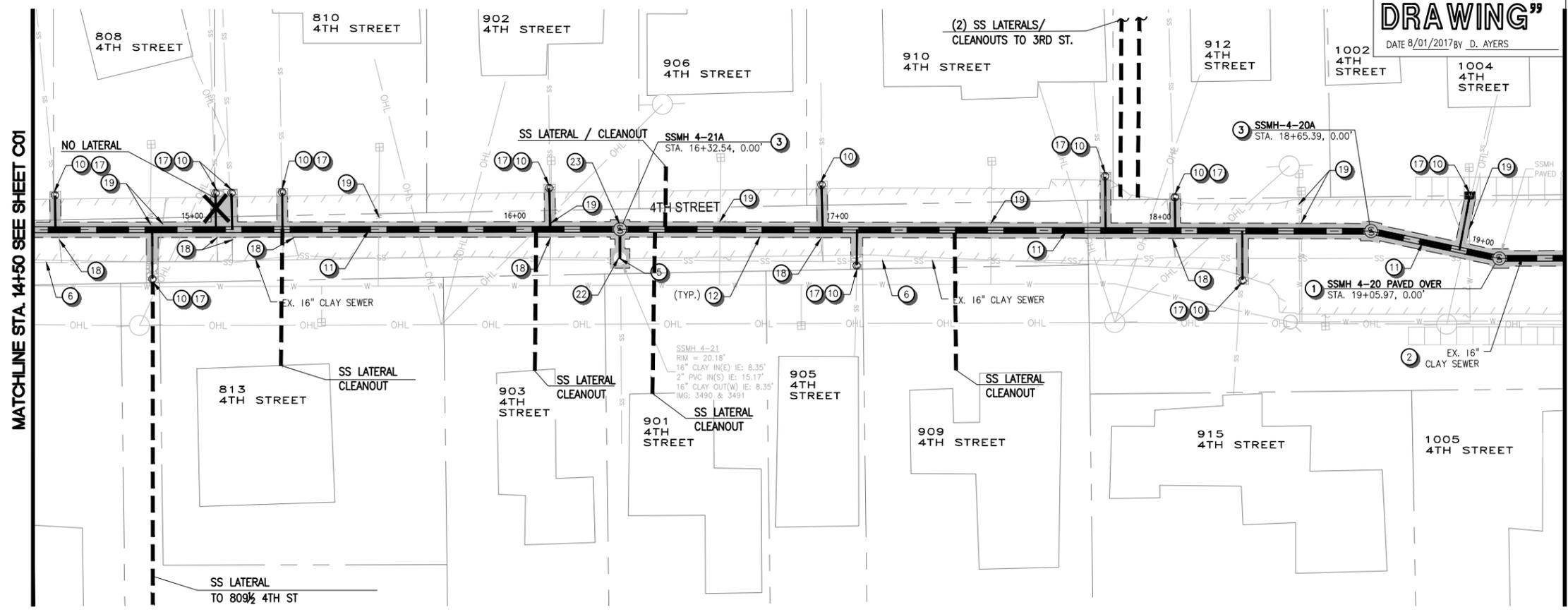
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CITY OF TILLAMOOK
TILLAMOOK SEWER REHABILITATION PROJECT PHASE 2
PLAN AND PROFILE
4TH STREET STA. 10+00 TO 14+50
TILLAMOOK, TILLAMOOK COUNTY, OR

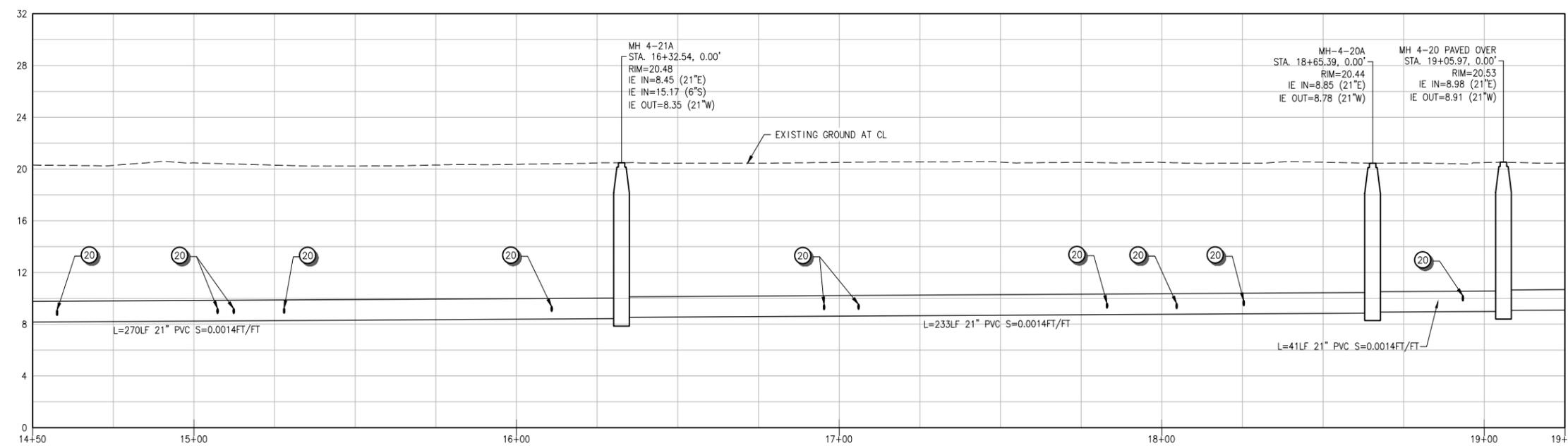
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PLAN



PROFILE

GENERAL NOTES

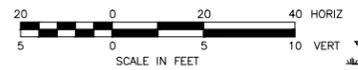
- 1 SEE SURVEY CONTROL PLANS ("SC" SHEETS) FOR DEFINITION OF CONSTRUCTION BASELINE STATIONING AND VERTICAL CONTROL
- 2 LOCATIONS OF LATERALS ARE APPROXIMATE AND ARE BASED ON MEASUREMENTS REPORTED IN TV INSPECTION VIDEOS
- 3 SEE SHEET D05 FOR GRIND AND INLAY PAVEMENT RESTORATION EXTENTS

EROSION CONTROL NOTES

- 1 INLET PROTECTION PER STD DWG RD1015 ON SHEET D04
- 2 SEDIMENT FENCE PER STD DWG RD1040 ON SHEET D04

KEY NOTES

- 1 REMOVE EXISTING MANHOLE AND INSTALL NEW 48-INCH SEWER MANHOLE PER COT STD DWG 010 ON SHEET D01.
- 2 REMOVE EXISTING CLAY OR CONCRETE PIPE AND REPLACE WITH GRAVITY SEWER BY OPEN CUT CONSTRUCTION METHODS PER COT STD DWG 590 ON SHEET D02. SEE PROFILE FOR PROPOSED PIPE SIZE AND MATERIAL TYPE.
- 3 INSTALL NEW 48-INCH SEWER MANHOLE PER COT STD DWG 010 ON SHEET D01.
- 5 ROUTE 6" PVC PIPE THROUGH ABANDONED MANHOLE. REMOVE MANHOLE SECTIONS ABOVE THE INVERT OF 6" PVC PIPE.
- 6 FILL AND ABANDON EXISTING MANHOLE AND GRAVITY SEWER PIPES IN PLACE FOLLOWING ACCEPTANCE OF NEW GRAVITY SEWER.
- 10 INSTALL SANITARY SEWER CLEANOUT AT RIGHT-OF-WAY LINE PER DWG 500 ON SHEET D02 AND CONNECT TO EXIST LATERAL.
- 11 CONSTRUCT NEW GRAVITY SEWER BY OPEN CUT CONSTRUCTION METHODS PER COT STD DWG 590 ON SHEET D02. SEE PROFILE FOR PROPOSED PIPE SIZE AND MATERIAL TYPE.
- 12 SAWCUT EXISTING ASPHALT PAVEMENT FOR TRENCHING AND RESTORATION. RESURFACE PER COT STD DWG 600 ON SHEET D02.
- 17 RESURFACE DISTURBED LANDSCAPE AND/OR SIDEWALK FEATURES TO MATCH EXISTING CONDITIONS. SEE COT STD DWG 590 ON SHEET D02 FOR BACKFILL REQUIREMENTS AND COT STD DWGS ON SHEET D03 FOR CURB AND SIDEWALK DETAILS.
- 18 PLUG AND ABANDON EXISTING SEWER LATERAL.
- 19 EXISTING UTILITY TO REMAIN. CONTRACTOR TO PROTECT AND SUPPORT DURING CONSTRUCTION.
- 20 INSTALL INSERTA-TEE, REMOVE EXISTING LATERAL AND REPLACE WITH 4" PVC PIPE FROM REHABILITATED SEWER MAIN TO RIGHT-OF-WAY LINE. PER COT STD DWGS 530 AND 590 ON SHEET D02.
- 22 CAP AND ABANDON EXISTING 16" GRAVITY SEWER PIPES IN PLACE AND FILL EXISTING MANHOLE TO ELEVATION 1' BELOW IE OF EXISTING 5" CLAY SEWER LATERAL. REMOVE REMAINING MANHOLE WALLS AND CONNECT NEW 6" PVC TO EXISTING LATERALS USING WYE.
- 23 INSTALL INSIDE DROP FOR LATERAL PIPES 18" OR MORE ABOVE MANHOLE CHANNEL PER COT STD DWG 090 ON SHEET D01.



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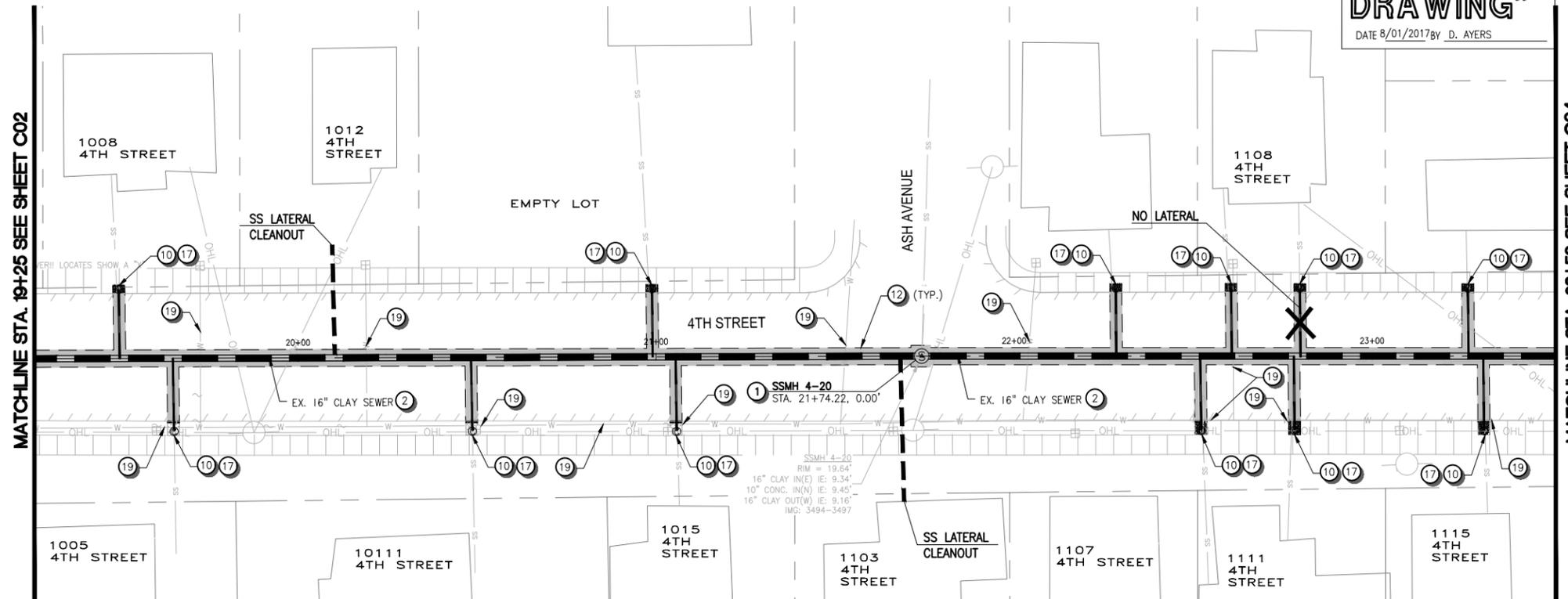
CITY OF TILLAMOOK
TILLAMOOK SEWER REHABILITATION PROJECT PHASE 2
PLAN AND PROFILE
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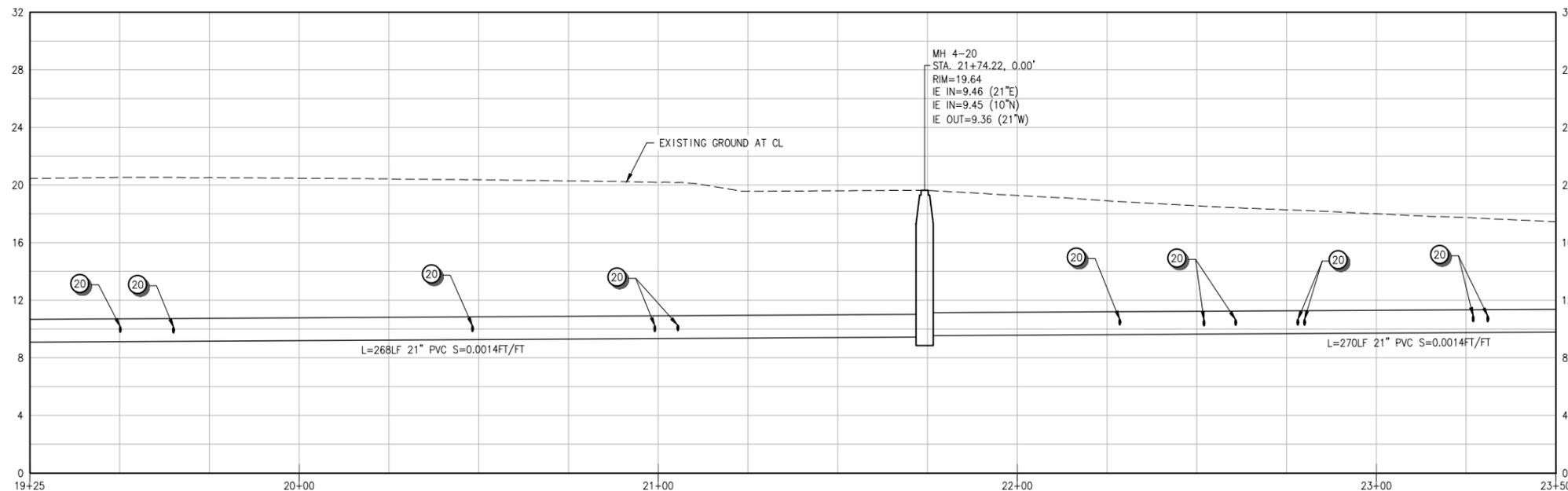
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DATE 8/01/2017 BY D. AYERS



PLAN



PROFILE

GENERAL NOTES

- 1 SEE SURVEY CONTROL PLANS ("SC" SHEETS) FOR DEFINITION OF CONSTRUCTION BASELINE STATIONING AND VERTICAL CONTROL
- 2 LOCATIONS OF LATERALS ARE APPROXIMATE AND ARE BASED ON MEASUREMENTS REPORTED IN TV INSPECTION VIDEOS
- 3 SEE SHEET D05 FOR GRIND AND INLAY PAVEMENT RESTORATION EXTENTS

EROSION CONTROL NOTES

- 1 INLET PROTECTION PER STD DWG RD1015 ON SHEET D04
- 2 SEDIMENT FENCE PER STD DWG RD1040 ON SHEET D04

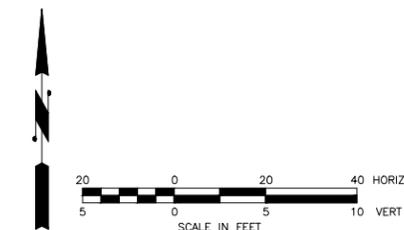
KEY NOTES

- 1 REMOVE EXISTING MANHOLE AND INSTALL NEW 48-INCH SEWER MANHOLE PER COT STD DWG 010 ON SHEET D01.
- 2 REMOVE EXISTING CLAY OR CONCRETE PIPE AND REPLACE WITH GRAVITY SEWER BY OPEN CUT CONSTRUCTION METHODS PER COT STD DWG 590 ON SHEET D02. SEE PROFILE FOR PROPOSED PIPE SIZE AND MATERIAL TYPE.
- 10 INSTALL SANITARY SEWER CLEANOUT AT RIGHT-OF-WAY LINE PER DWG 500 ON SHEET D02 AND CONNECT TO EXIST LATERAL.
- 12 SAWCUT EXISTING ASPHALT PAVEMENT FOR TRENCHING AND RESTORATION. RESURFACE PER COT STD DWG 600 ON SHEET D02.
- 17 RESURFACE DISTURBED LANDSCAPE AND/OR SIDEWALK FEATURES TO MATCH EXISTING CONDITIONS. SEE COT STD DWG 590 ON SHEET D02 FOR BACKFILL REQUIREMENTS AND COT STD DWGS ON SHEET D03 FOR CURB AND SIDEWALK DETAILS.
- 19 EXISTING UTILITY TO REMAIN. CONTRACTOR TO PROTECT AND SUPPORT DURING CONSTRUCTION.
- 20 INSTALL INSERTA-TEE, REMOVE EXISTING LATERAL AND REPLACE WITH 4" PVC PIPE FROM REHABILITATED SEWER MAIN TO RIGHT-OF-WAY LINE. PER COT STD DWGS 530 AND 590 ON SHEET D02.

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Project No.
C03
 Sheet No. 8 of 47



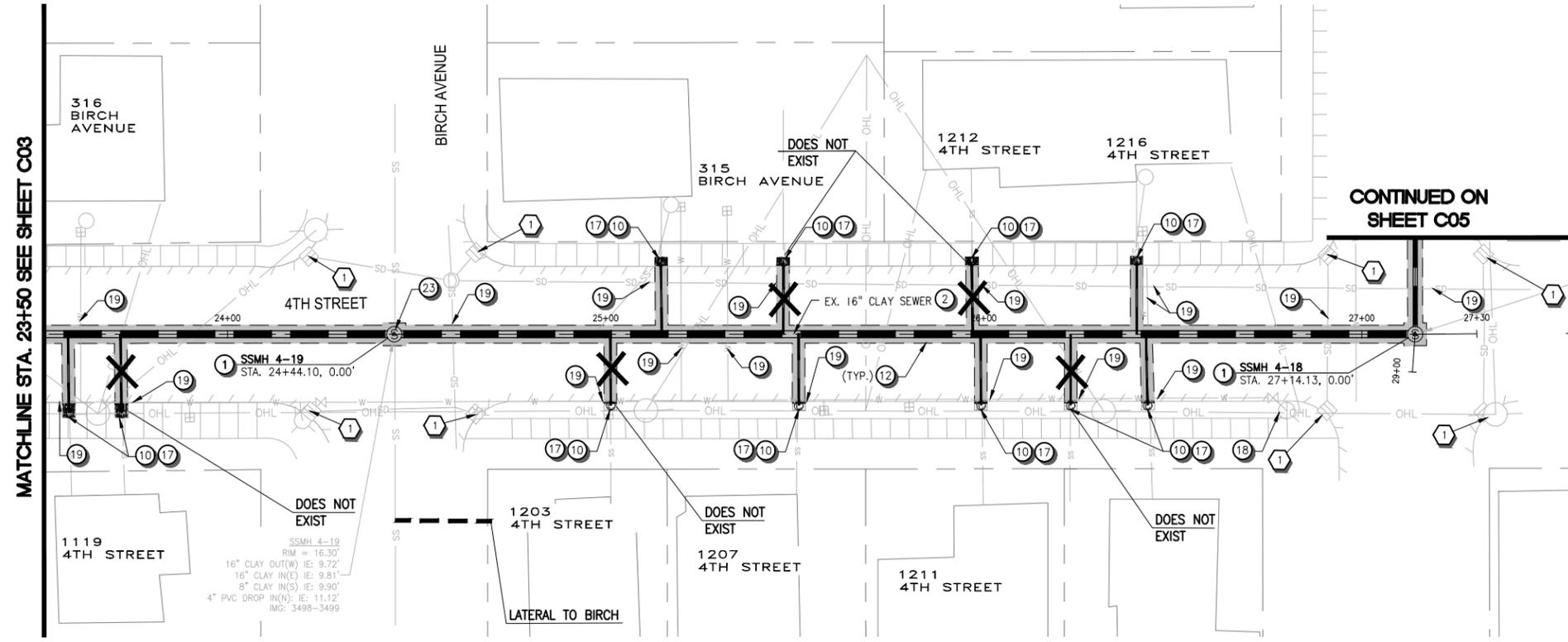
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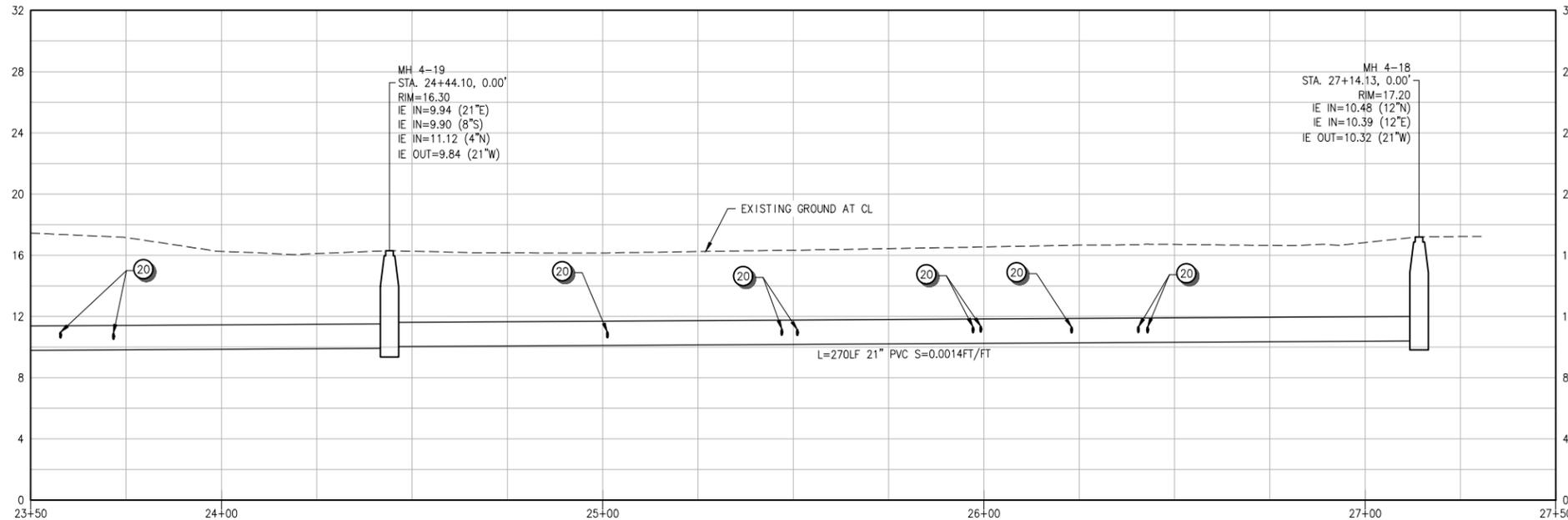
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PLAN



PROFILE

GENERAL NOTES

- SEE SURVEY CONTROL PLANS ("SC" SHEETS) FOR DEFINITION OF CONSTRUCTION BASELINE STATIONING AND VERTICAL CONTROL
- LOCATIONS OF LATERALS ARE APPROXIMATE AND ARE BASED ON MEASUREMENTS REPORTED IN TV INSPECTION VIDEOS
- SEE SHEET D05 FOR GRIND AND INLAY PAVEMENT RESTORATION EXTENTS

EROSION CONTROL NOTES

- INLET PROTECTION PER STD DWG RD1015 ON SHEET D04
- SEDIMENT FENCE PER STD DWG RD1040 ON SHEET D04

KEY NOTES

- REMOVE EXISTING MANHOLE AND INSTALL NEW 48-INCH SEWER MANHOLE PER COT STD DWG 010 ON SHEET D01.
- REMOVE EXISTING CLAY OR CONCRETE PIPE AND REPLACE WITH GRAVITY SEWER BY OPEN CUT CONSTRUCTION METHODS PER COT STD DWG 590 ON SHEET D02. SEE PROFILE FOR PROPOSED PIPE SIZE AND MATERIAL TYPE.
- INSTALL SANITARY SEWER CLEANOUT AT RIGHT-OF-WAY LINE PER DWG 500 ON SHEET D02 AND CONNECT TO EXIST LATERAL.
- SAWCUT EXISTING ASPHALT PAVEMENT FOR TRENCHING AND RESTORATION. RESURFACE PER COT STD DWG 600 ON SHEET D02.
- RESURFACE DISTURBED LANDSCAPE AND/OR SIDEWALK FEATURES TO MATCH EXISTING CONDITIONS. SEE COT STD DWG 590 ON SHEET D02 FOR BACKFILL REQUIREMENTS AND COT STD DWGS ON SHEET D03 FOR CURB AND SIDEWALK DETAILS.
- EXISTING UTILITY TO REMAIN. CONTRACTOR TO PROTECT AND SUPPORT DURING CONSTRUCTION.
- INSTALL INSERTA-TEE, REMOVE EXISTING LATERAL AND REPLACE WITH 4" PVC PIPE FROM REHABILITATED SEWER MAIN TO RIGHT-OF-WAY LINE, PER COT STD DWGS 530 AND 590 ON SHEET D02.
- INSTALL INSIDE DROP FOR LATERAL PIPES 18" OR MORE ABOVE MANHOLE CHANNEL PER COT STD DWG 090 ON SHEET D01.

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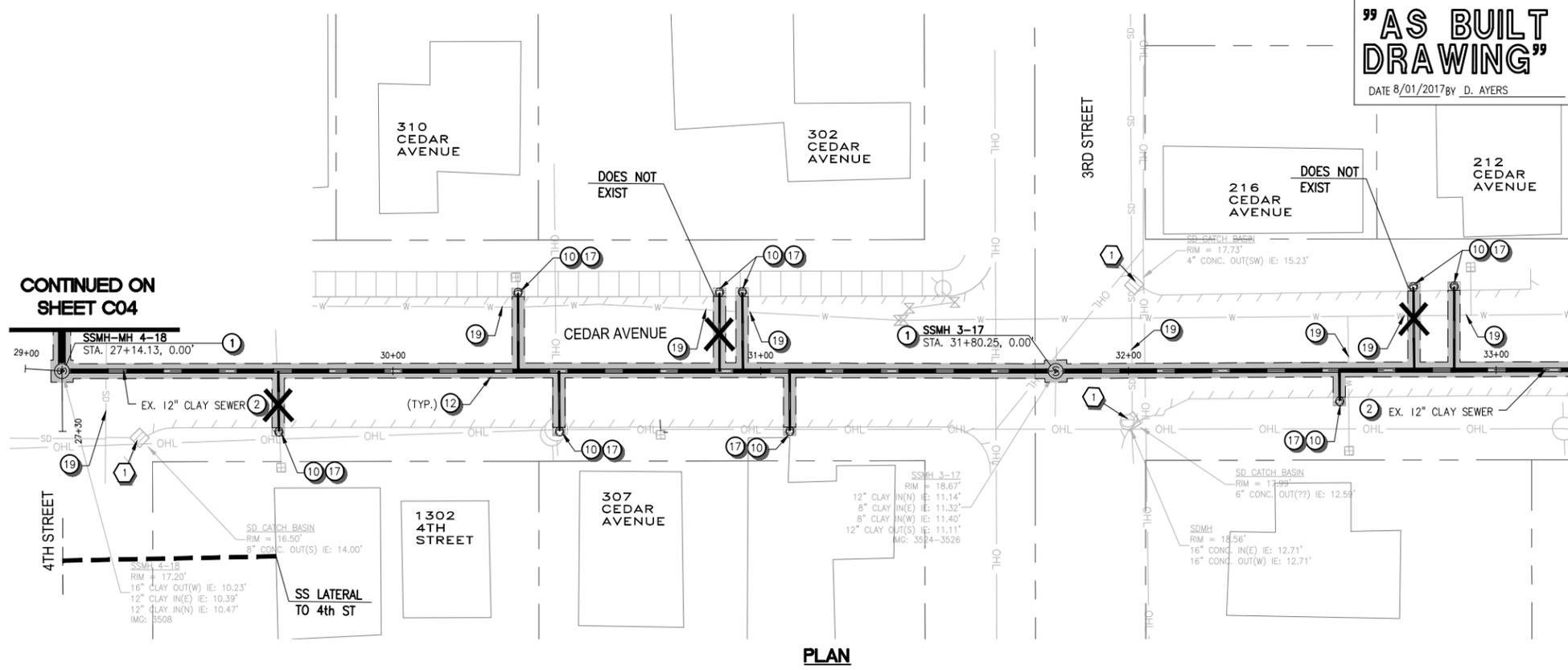
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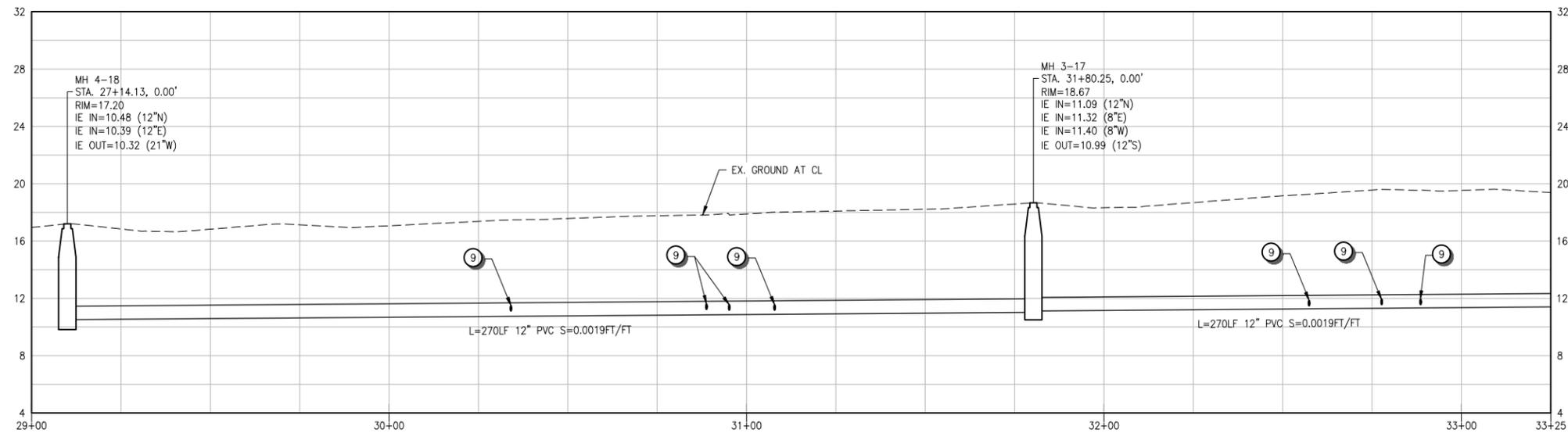


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MATCHLINE STA. 33+25 SEE SHEET C06

GENERAL NOTES

- SEE SURVEY CONTROL PLANS ("SC" SHEETS) FOR DEFINITION OF CONSTRUCTION BASELINE STATIONING AND VERTICAL CONTROL
- LOCATIONS OF LATERALS ARE APPROXIMATE AND ARE BASED ON MEASUREMENTS REPORTED IN TV INSPECTION VIDEOS
- SEE SHEET D05 FOR GRIND AND INLAY PAVEMENT RESTORATION EXTENTS

EROSION CONTROL NOTES

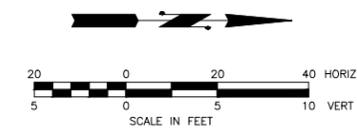
- INLET PROTECTION PER STD DWG RD1015 ON SHEET D04
- SEDIMENT FENCE PER STD DWG RD1040 ON SHEET D04

KEY NOTES

- REMOVE EXISTING MANHOLE AND INSTALL NEW 48-INCH SEWER MANHOLE PER COT STD DWG 010 ON SHEET D01.
- REMOVE EXISTING CLAY OR CONCRETE PIPE AND REPLACE WITH GRAVITY SEWER BY OPEN CUT CONSTRUCTION METHODS PER COT STD DWG 590 ON SHEET D02. SEE PROFILE FOR PROPOSED PIPE SIZE AND MATERIAL TYPE.
- INSTALL TEE, REMOVE EXISTING LATERAL AND REPLACE WITH 4" PVC PIPE FROM REHABILITATED SEWER MAIN TO RIGHT-OF-WAY LINE, PER COT STD DWGS 520 AND 590 ON SHEET D02.
- INSTALL SANITARY SEWER CLEANOUT AT RIGHT-OF-WAY LINE PER DWG 500 ON SHEET D02 AND CONNECT TO EXIST LATERAL.
- SAWCUT EXISTING ASPHALT PAVEMENT FOR TRENCHING AND RESTORATION. RESURFACE PER COT STD DWG 600 ON SHEET D02.
- RESURFACE DISTURBED LANDSCAPE AND/OR SIDEWALK FEATURES TO MATCH EXISTING CONDITIONS. SEE COT STD DWG 590 ON SHEET D02 FOR BACKFILL REQUIREMENTS AND COT STD DWGS ON SHEET D03 FOR CURB AND SIDEWALK DETAILS.
- EXISTING UTILITY TO REMAIN. CONTRACTOR TO PROTECT AND SUPPORT DURING CONSTRUCTION.

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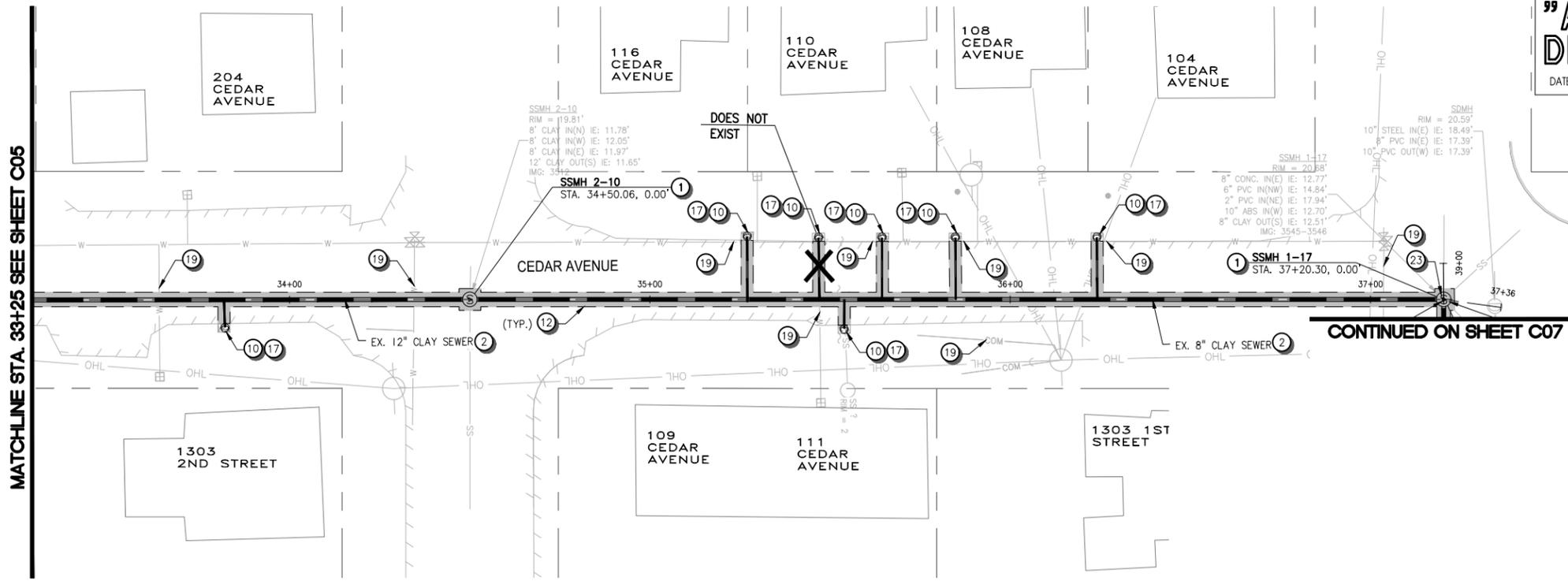
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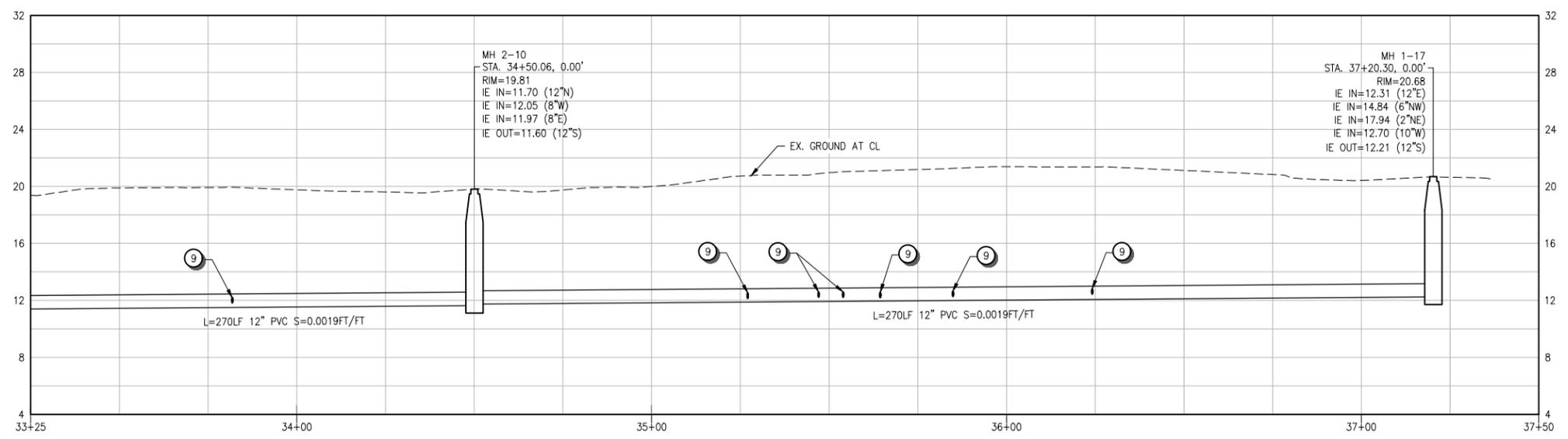
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PLAN



PROFILE

GENERAL NOTES

- 1 SEE SURVEY CONTROL PLANS ("SC" SHEETS) FOR DEFINITION OF CONSTRUCTION BASELINE STATIONING AND VERTICAL CONTROL
- 2 LOCATIONS OF LATERALS ARE APPROXIMATE AND ARE BASED ON MEASUREMENTS REPORTED IN TV INSPECTION VIDEOS
- 3 SEE SHEET D05 FOR GRIND AND INLAY PAVEMENT RESTORATION EXTENTS

EROSION CONTROL NOTES

- 1 INLET PROTECTION PER STD DWG RD1015 ON SHEET D04
- 2 SEDIMENT FENCE PER STD DWG RD1040 ON SHEET D04

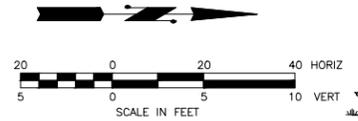
KEY NOTES

- 1 REMOVE EXISTING MANHOLE AND INSTALL NEW 48-INCH SEWER MANHOLE PER COT STD DWG 010 ON SHEET D01.
- 2 REMOVE EXISTING CLAY OR CONCRETE PIPE AND REPLACE WITH GRAVITY SEWER BY OPEN CUT CONSTRUCTION METHODS PER COT STD DWG 590 ON SHEET D02. SEE PROFILE FOR PROPOSED PIPE SIZE AND MATERIAL TYPE.
- 9 INSTALL TEE, REMOVE EXISTING LATERAL AND REPLACE WITH 4" PVC PIPE FROM REHABILITATED SEWER MAIN TO RIGHT-OF-WAY LINE. PER COT STD DWGS 520 AND 590 ON SHEET D02.
- 10 INSTALL SANITARY SEWER CLEANOUT AT RIGHT-OF-WAY LINE PER DWG 500 ON SHEET D02 AND CONNECT TO EXIST LATERAL.
- 12 SAWCUT EXISTING ASPHALT PAVEMENT FOR TRENCHING AND RESTORATION. RESURFACE PER COT STD DWG 600 ON SHEET D02.
- 17 RESURFACE DISTURBED LANDSCAPE AND/OR SIDEWALK FEATURES TO MATCH EXISTING CONDITIONS. SEE COT STD DWG 590 ON SHEET D02 FOR BACKFILL REQUIREMENTS AND COT STD DWGS ON SHEET D03 FOR CURB AND SIDEWALK DETAILS.
- 19 EXISTING UTILITY TO REMAIN. CONTRACTOR TO PROTECT AND SUPPORT DURING CONSTRUCTION.
- 23 INSTALL INSIDE DROP FOR LATERAL PIPES 18" OR MORE ABOVE MANHOLE CHANNEL PER COT STD DWG 090 ON SHEET D01.

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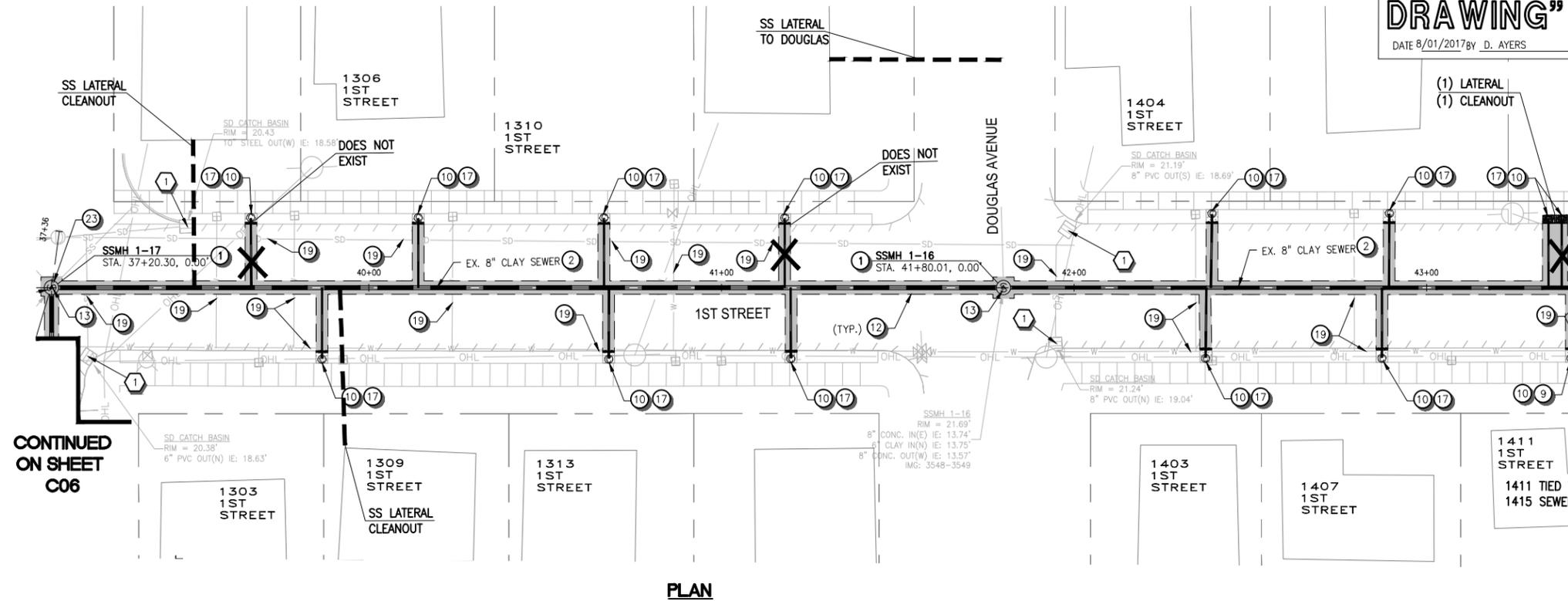


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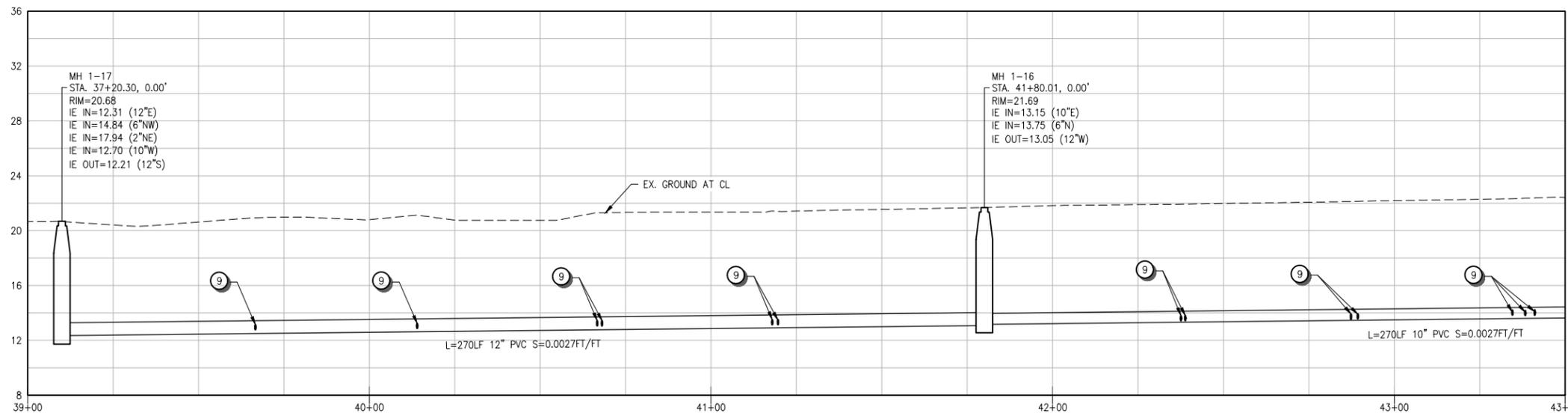
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PLAN



PROFILE

MATCHLINE STA. 43+50 SEE SHEET C08

GENERAL NOTES

- 1 SEE SURVEY CONTROL PLANS ("SC" SHEETS) FOR DEFINITION OF CONSTRUCTION BASELINE STATIONING AND VERTICAL CONTROL
- 2 LOCATIONS OF LATERALS ARE APPROXIMATE AND ARE BASED ON MEASUREMENTS REPORTED IN TV INSPECTION VIDEOS
- 3 SEE SHEET D05 FOR GRIND AND INLAY PAVEMENT RESTORATION EXTENTS

EROSION CONTROL NOTES

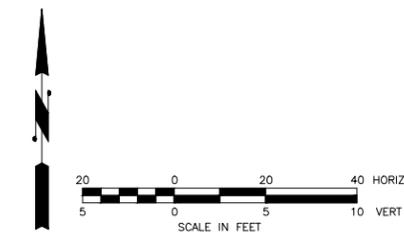
- 1 INLET PROTECTION PER STD DWG RD1015 ON SHEET D04
- 2 SEDIMENT FENCE PER STD DWG RD1040 ON SHEET D04

KEY NOTES

- 1 REMOVE EXISTING MANHOLE AND INSTALL NEW 48-INCH SEWER MANHOLE PER COT STD DWG 010 ON SHEET D01.
- 2 REMOVE EXISTING CLAY OR CONCRETE PIPE AND REPLACE WITH GRAVITY SEWER BY OPEN CUT CONSTRUCTION METHODS PER COT STD DWG 590 ON SHEET D02. SEE PROFILE FOR PROPOSED PIPE SIZE AND MATERIAL TYPE.
- 9 INSTALL TEE, REMOVE EXISTING LATERAL AND REPLACE WITH 4" PVC PIPE FROM REHABILITATED SEWER MAIN TO RIGHT-OF-WAY LINE, PER COT STD DWGS 520 AND 590 ON SHEET D02.
- 10 INSTALL SANITARY SEWER CLEANOUT AT RIGHT-OF-WAY LINE PER DWG 500 ON SHEET D02 AND CONNECT TO EXIST LATERAL.
- 12 SAWCUT EXISTING ASPHALT PAVEMENT FOR TRENCHING AND RESTORATION. RESURFACE PER COT STD DWG 600 ON SHEET D02.
- 13 APPLY PROTECTIVE EPOXY COATING TO INTERIOR OF MANHOLE AND ASPHALTIC COATING TO EXTERIOR OF MANHOLE.
- 17 RESURFACE DISTURBED LANDSCAPE AND/OR SIDEWALK FEATURES TO MATCH EXISTING CONDITIONS. SEE COT STD DWG 590 ON SHEET D02 FOR BACKFILL REQUIREMENTS AND COT STD DWGS ON SHEET D03 FOR CURB AND SIDEWALK DETAILS.
- 19 EXISTING UTILITY TO REMAIN. CONTRACTOR TO PROTECT AND SUPPORT DURING CONSTRUCTION.
- 23 INSTALL INSIDE DROP FOR LATERAL PIPES 18" OR MORE ABOVE MANHOLE CHANNEL PER COT STD DWG 090 ON SHEET D01.

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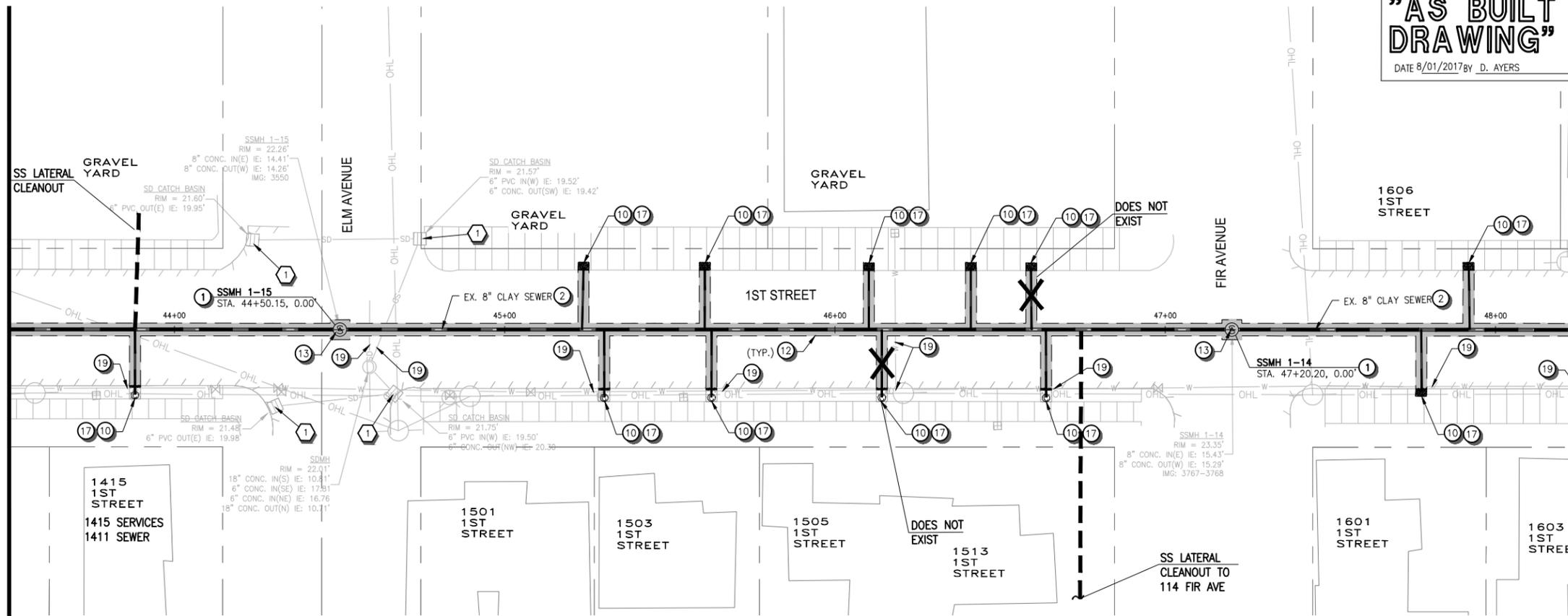
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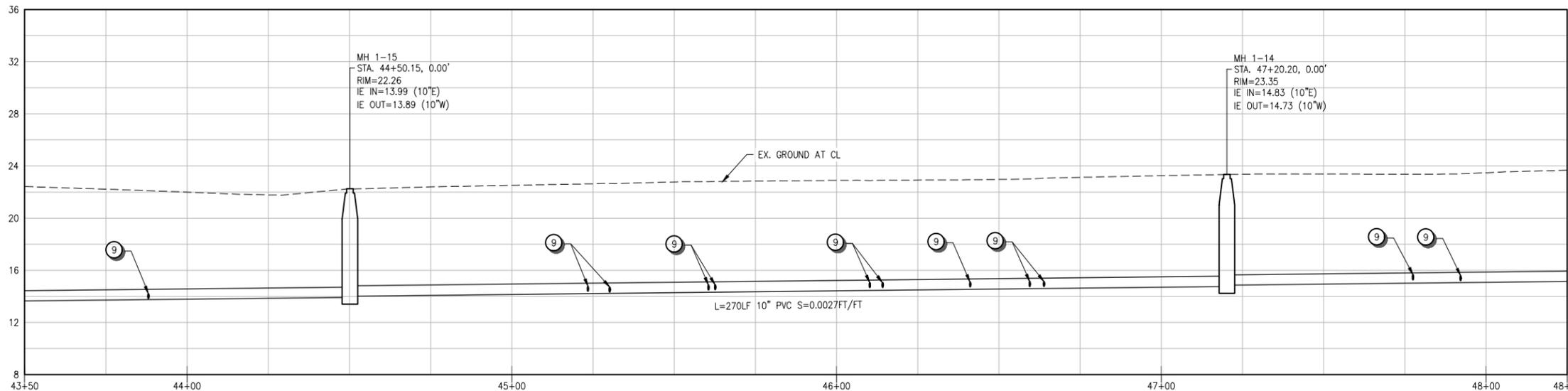
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MATCHLINE STA. 43+50 SEE SHEET C07

MATCHLINE STA. 48+25 SEE SHEET C09



PLAN



PROFILE

GENERAL NOTES

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- 3 SEE SHEET D05 FOR GRIND AND INLAY PAVEMENT RESTORATION EXTENTS

EROSION CONTROL NOTES

- 1 INLET PROTECTION PER STD DWG RD1015 ON SHEET D04
- 2 SEDIMENT FENCE PER STD DWG RD1040 ON SHEET D04

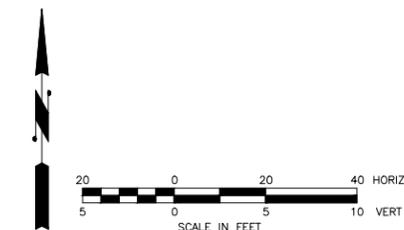
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- 1 REMOVE EXISTING MANHOLE AND INSTALL NEW 48-INCH SEWER MANHOLE PER COT STD DWG 010 ON SHEET D01.
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- 10 INSTALL SANITARY SEWER CLEANOUT AT RIGHT-OF-WAY LINE PER DWG 500 ON SHEET D02 AND CONNECT TO EXIST LATERAL.
- 12 SAWCUT EXISTING ASPHALT PAVEMENT FOR TRENCHING AND RESTORATION, RESURFACE PER COT STD DWG 600 ON SHEET D02.
- 13 APPLY PROTECTIVE EPOXY COATING TO INTERIOR OF MANHOLE AND ASPHALTIC COATING TO EXTERIOR OF MANHOLE.
- 17 RESURFACE DISTURBED LANDSCAPE AND/OR SIDEWALK FEATURES TO MATCH EXISTING CONDITIONS. SEE COT STD DWG 590 ON SHEET D02 FOR BACKFILL REQUIREMENTS AND COT STD DWGS ON SHEET D03 FOR CURB AND SIDEWALK DETAILS.
- 19 EXISTING UTILITY TO REMAIN. CONTRACTOR TO PROTECT AND SUPPORT DURING CONSTRUCTION.

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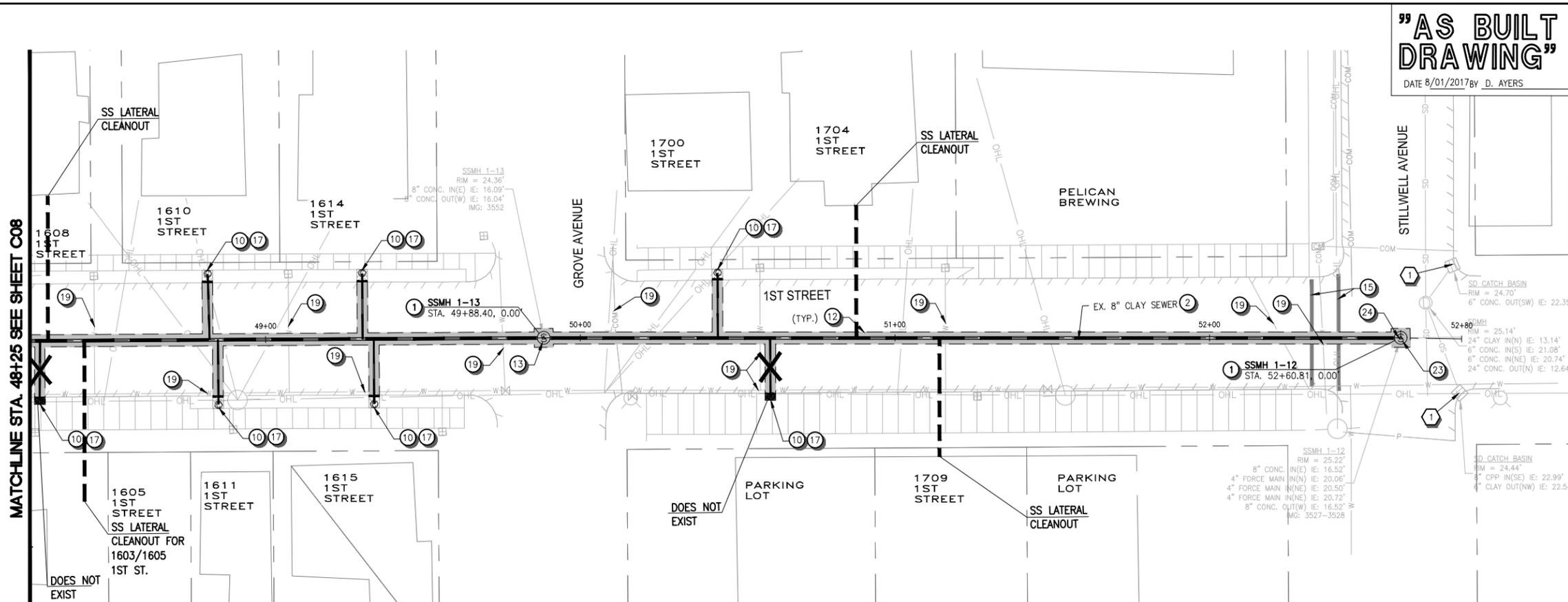
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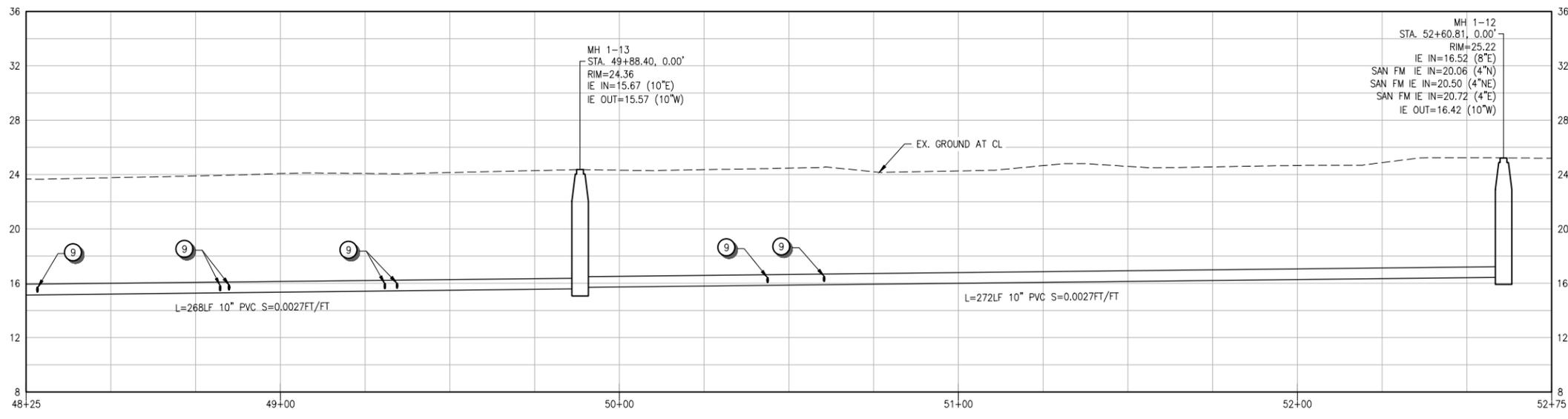


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- GENERAL NOTES**
- SEE SURVEY CONTROL PLANS ("SC" SHEETS) FOR DEFINITION OF CONSTRUCTION BASELINE STATIONING AND VERTICAL CONTROL
 - LOCATIONS OF LATERALS ARE APPROXIMATE AND ARE BASED ON MEASUREMENTS REPORTED IN TV INSPECTION VIDEOS
 - SEE SHEET D05 FOR GRIND AND INLAY PAVEMENT RESTORATION EXTENTS

- EROSION CONTROL NOTES**
- INLET PROTECTION PER STD DWG RD1015 ON SHEET D04
 - SEDIMENT FENCE PER STD DWG RD1040 ON SHEET D04

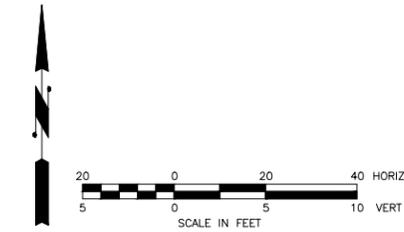
- KEY NOTES**
- REMOVE EXISTING MANHOLE AND INSTALL NEW 48-INCH SEWER MANHOLE PER COT STD DWG 010 ON SHEET D01.
 - REMOVE EXISTING CLAY OR CONCRETE PIPE AND REPLACE WITH GRAVITY SEWER BY OPEN CUT CONSTRUCTION METHODS PER COT STD DWG 590 ON SHEET D02. SEE PROFILE FOR PROPOSED PIPE SIZE AND MATERIAL TYPE.
 - INSTALL TEE, REMOVE EXISTING LATERAL AND REPLACE WITH 4" PVC PIPE FROM REHABILITATED SEWER MAIN TO RIGHT-OF-WAY LINE, PER COT STD DWGS 520 AND 590 ON SHEET D02.
 - INSTALL SANITARY SEWER CLEANOUT AT RIGHT-OF-WAY LINE PER DWG 500 ON SHEET D02 AND CONNECT TO EXIST LATERAL.
 - SAWCUT EXISTING ASPHALT PAVEMENT FOR TRENCHING AND RESTORATION. RESURFACE PER COT STD DWG 600 ON SHEET D02.
 - APPLY PROTECTIVE EPOXY COATING TO INTERIOR OF MANHOLE AND ASPHALTIC COATING TO EXTERIOR OF MANHOLE.
 - REPLACE CROSSWALK STRIPING, SEE SHEET D05.
 - RESURFACE DISTURBED LANDSCAPE AND/OR SIDEWALK FEATURES TO MATCH EXISTING CONDITIONS. SEE COT STD DWG 590 ON SHEET D02 FOR BACKFILL REQUIREMENTS, AND COT STD DWGS ON SHEET D03 FOR CURB AND SIDEWALK DETAILS.
 - EXISTING UTILITY TO REMAIN. CONTRACTOR TO PROTECT AND SUPPORT DURING CONSTRUCTION.
 - INSTALL INSIDE DROP FOR LATERAL PIPES 18" OR MORE ABOVE MANHOLE CHANNEL PER COT STD DWG 090 ON SHEET D01.
 - REMOVE EXISTING MANHOLE AND INSTALL NEW 48-INCH SEWER MANHOLE PER COT STD DWG 010 ON SHEET D01. MANHOLE SHALL BE FULLY LINED PER SPECIFICATIONS SECTION 00470 WITH WATERTIGHT LOCKING LID. PRIOR TO REMOVING EXISTING MANHOLE, CONTRACTOR SHALL DEVELOP AND SUBMIT A TEMPORARY FORCE MAIN BYPASS PLAN PER SECTION 00490 OF THE SPECIFICATIONS.



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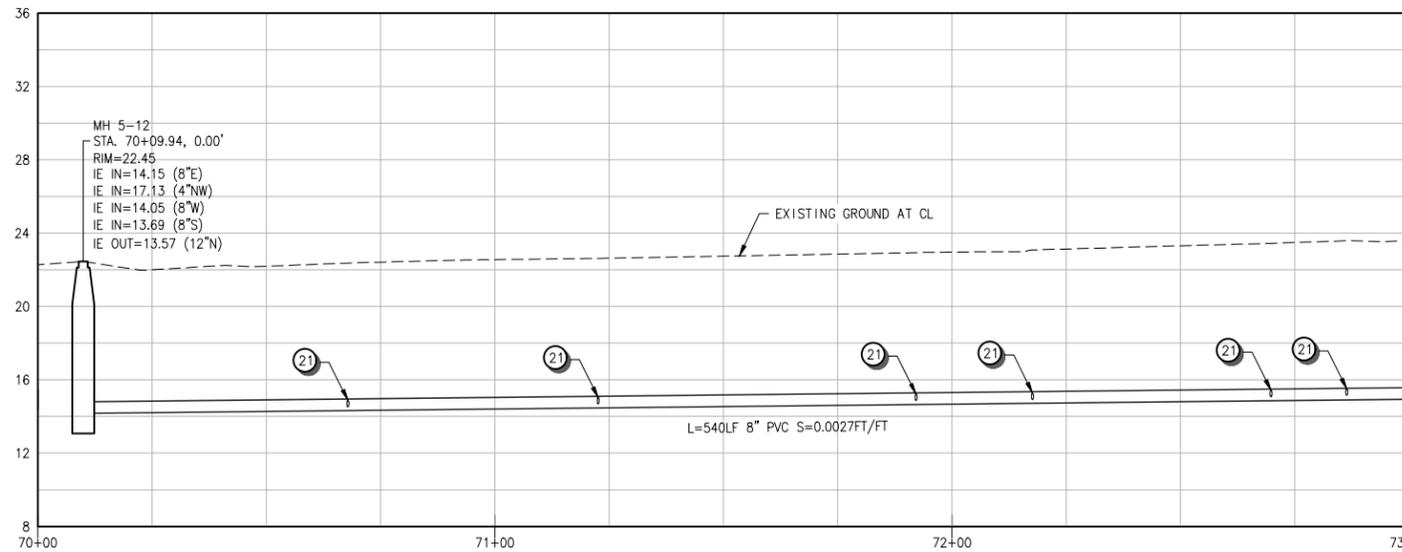
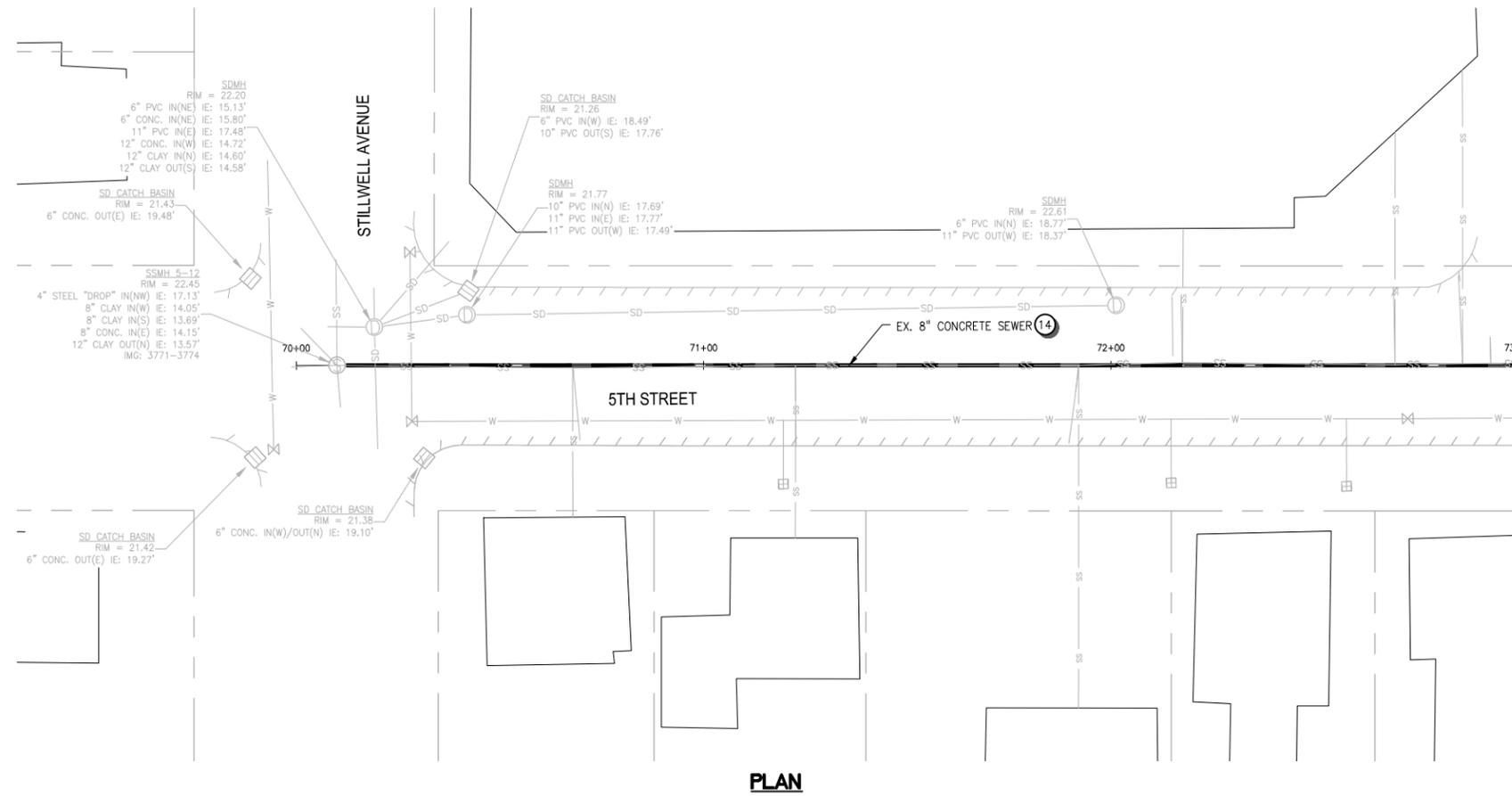
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- GENERAL NOTES**
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 - LOCATIONS OF LATERALS ARE APPROXIMATE AND ARE BASED ON MEASUREMENTS REPORTED IN TV INSPECTION VIDEOS
 - SEE SHEET D05 FOR GRIND AND INLAY PAVEMENT RESTORATION EXTENTS
 - 00410 AND 00412 OF THE SPECIFICATIONS FOR CURED IN PLACE PIPE LINING REQUIREMENTS.

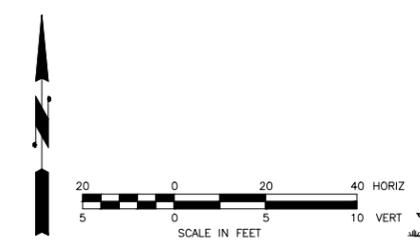
- EROSION CONTROL NOTES**
- INLET PROTECTION PER STD DWG RD1015 ON SHEET D04
 - SEDIMENT FENCE PER STD DWG RD1040 ON SHEET D04

- KEY NOTES**
- REHABILITATE EX. GRAVITY SEWER PIPE BY CIPP METHODS.
 - VERIFY EXISTING LATERAL SIZE AND MATERIAL TYPE VIA PRE-LINE INSPECTION PER SPECIFICATIONS SECTIONS 00410 AND 00415. AFTER MAINLINE CIPP WORK IS ACCEPTED, RECONNECT SERVICE LINE AND GROUT LATERAL CONNECTION.

NO.	DATE	BY	Checked/Approval	REVISIONS	Initial Issue by :

CITY OF TILLAMOOK
TILLAMOOK SEWER REHABILITATION PROJECT PHASE 2
PLAN AND PROFILE
5TH STREET STA. 70+00 TO 73+00
TILLAMOOK, TILLAMOOK COUNTY, OR

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 Global Partner
 700 Washington Street
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 Vancouver, WA 98660
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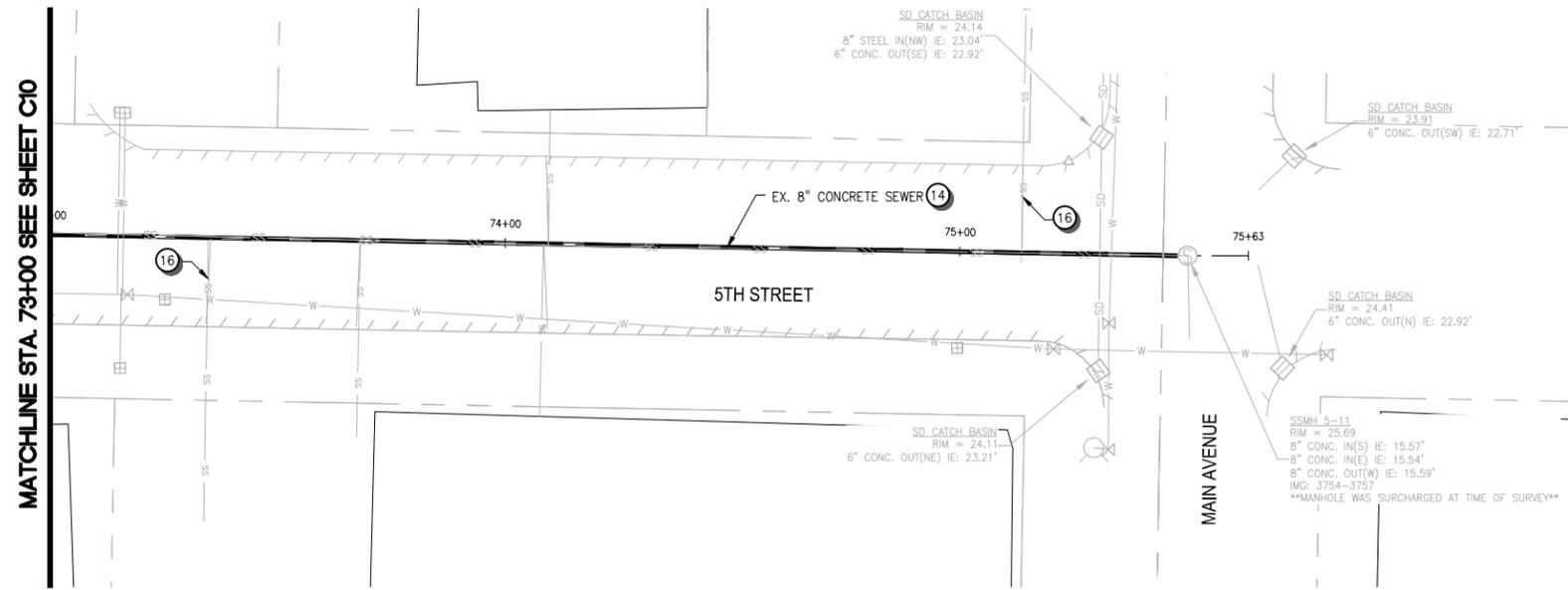


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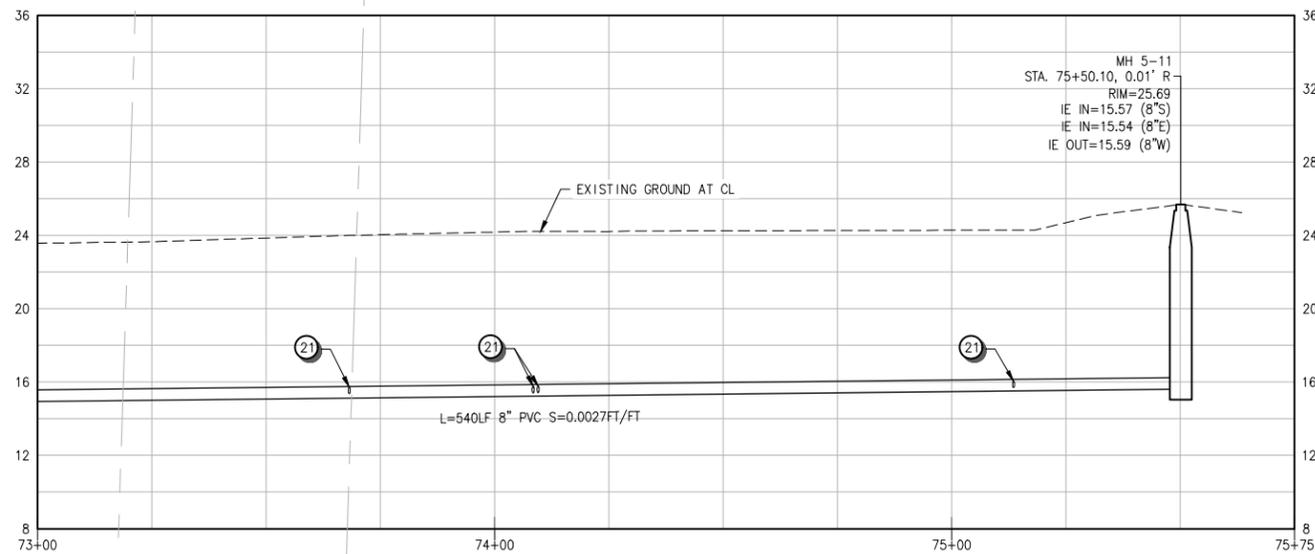
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**"AS BUILT
 DRAWING"**

DATE 8/01/2017 BY D. AYERS



PLAN



PROFILE

GENERAL NOTES

- 1 SEE SURVEY CONTROL PLANS ("SC" SHEETS) FOR DEFINITION OF CONSTRUCTION BASELINE STATIONING AND VERTICAL CONTROL
- 2 LOCATIONS OF LATERALS ARE APPROXIMATE AND ARE BASED ON MEASUREMENTS REPORTED IN TV INSPECTION VIDEOS
- 3 SEE SHEET D05 FOR GRIND AND INLAY PAVEMENT RESTORATION EXTENTS
- 4 00410 AND 00412 OF THE SPECIFICATIONS FOR CURED IN PLACE PIPE LINING REQUIREMENTS.

EROSION CONTROL NOTES

- 1 INLET PROTECTION PER STD DWG RD1015 ON SHEET D04
- 2 SEDIMENT FENCE PER STD DWG RD1040 ON SHEET D04

KEY NOTES

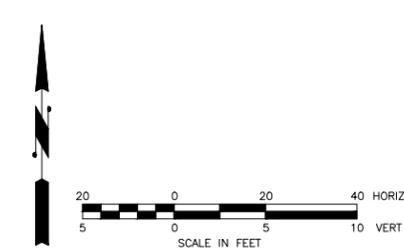
- 14 REHABILITATE EX. GRAVITY SEWER PIPE BY CIPP METHODS.
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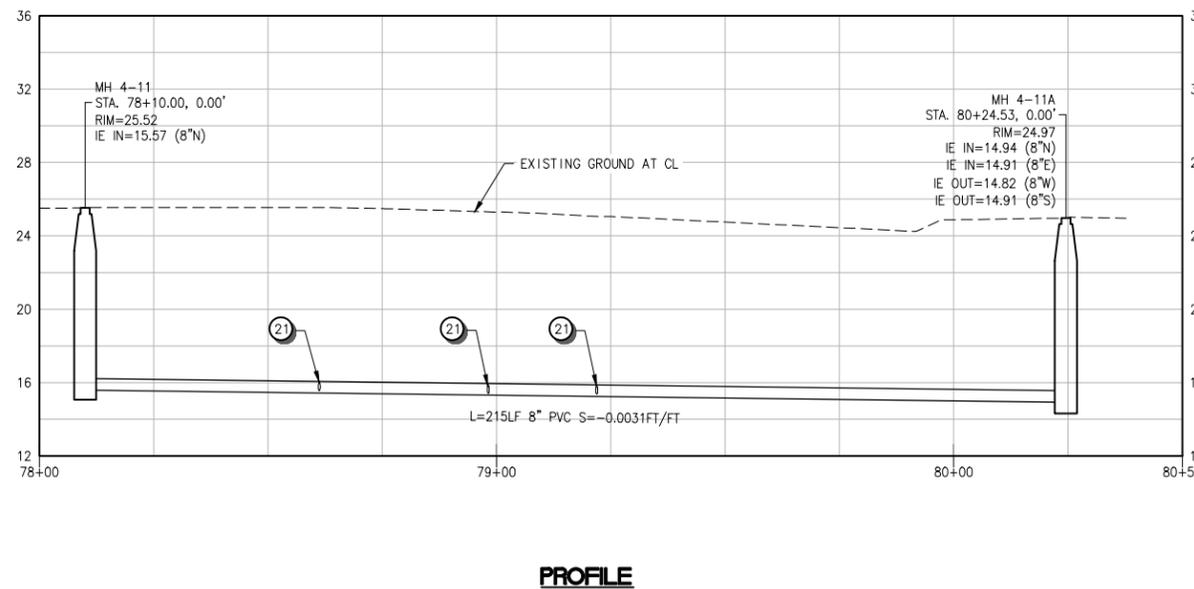
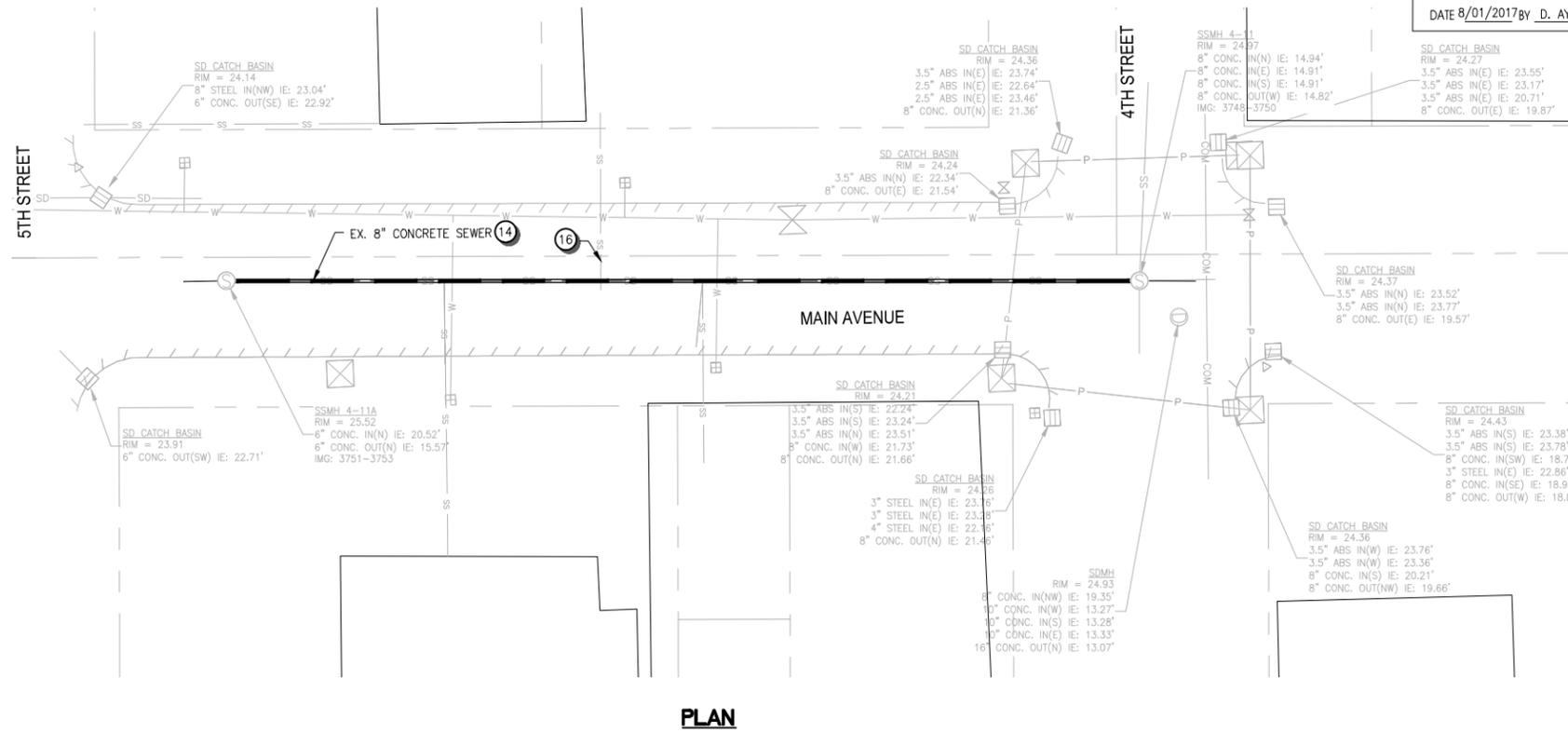
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Project No.
C11
 Sheet No. 16 of 47



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