

END PROJECT  
STA. 477+84.00  
MILE 9.05

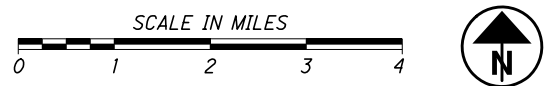
BEGIN PROJECT  
STA. 449+85.60  
MILE 8.52

# LOR-57-8.52 ENVISION MAIN ST PH1 VILLAGE OF GRAFTON LORAIN COUNTY, OHIO

**PROJECT DESCRIPTION**

THE PROJECT INVOLVES THE RESURFACING OF APPROXIMATELY 2900 FT OF MAIN ST. (SR57). ALSO INCLUDES THE REPLACEMENT OF CURB, PLACEMENT OF NEW CURB AND GUTTER, DRAINAGE IMPROVEMENTS. OTHER IMPROVEMENTS INCLUDE THE REALIGNMENT OF PARSONS ROAD, TRAFFIC SIGNAL REMOVAL, CURB BUMPOUTS AND LANDSCAPING

**LOCATION MAP**  
LATITUDE: N41°16'40" LONGITUDE: W82°03'39"



- PORTION TO BE IMPROVED -----
- INTERSTATE HIGHWAY -----
- FEDERAL ROUTES -----
- STATE ROUTES -----
- COUNTY & TOWNSHIP ROADS -----
- OTHER ROADS -----

**DESIGN DESIGNATION**

CURRENT ADT (2020)	5690
DESIGN YEAR ADT (2042)	6200
DESIGN HOURLY VOLUME (2042)	800
DIRECTIONAL DISTRIBUTION	0.54
TRUCKS (24 HOUR B&C)	6%
DESIGN SPEED	25 MPH TO 40 MPH
LEGAL SPEED	25 MPH TO 40 MPH
DESIGN FUNCTIONAL CLASSIFICATION: URBAN MINOR ARTERIAL	

**DESIGN EXCEPTIONS**

NONE REQUIRED

**UNDERGROUND UTILITIES**  
Contact Two Working Days  
Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764  
(Non-members must be called directly)

ENGINEERS SEAL:

SIGNED: *Jeffrey Yoder*  
DATE: 11-10-21

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**EARTH DISTURBED AREAS**

PROJECT EARTH DISTURBED AREA:	2.4 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.5 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	2.9 ACRES

**2019 SPECIFICATIONS**

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS	
BP-3.1	1/17/20	CB-2-2A,2-2B,2-2C	HL-20.11	1/15/21	TC-41.20	10/18/13	MT-97.10	4/19/19	800 10/15/21
				7/16/21	TC-41.30	10/18/13	MT-97.11	1/20/17	832 10/19/18
BP-4.1	7/19/13		HL-30.11	1/15/21			MT-101.60	1/17/20	
		CB-2-3,2-4		7/16/21	TC-42.20	10/18/13	MT-101.90	7/17/20	
BP-5.1	1/18/19		HL-30.21	4/17/20					
		CB-3A	HL-30.22	1/15/21	TC-52.10	10/18/13	MT-105.10	1/17/20	
BP-7.1	7/17/20				TC-52.20	1/15/21			
		MH-1		7/16/21					
RM-1.1	1/15/21				TC-71.10	7/16/21			
		MH-3		7/16/21					
RM-5.1	7/18/14				TC-74.10	7/16/21			
		DM-1.1		7/17/20					
			DM-4.3	1/15/16					
			DM-4.4	1/15/16					

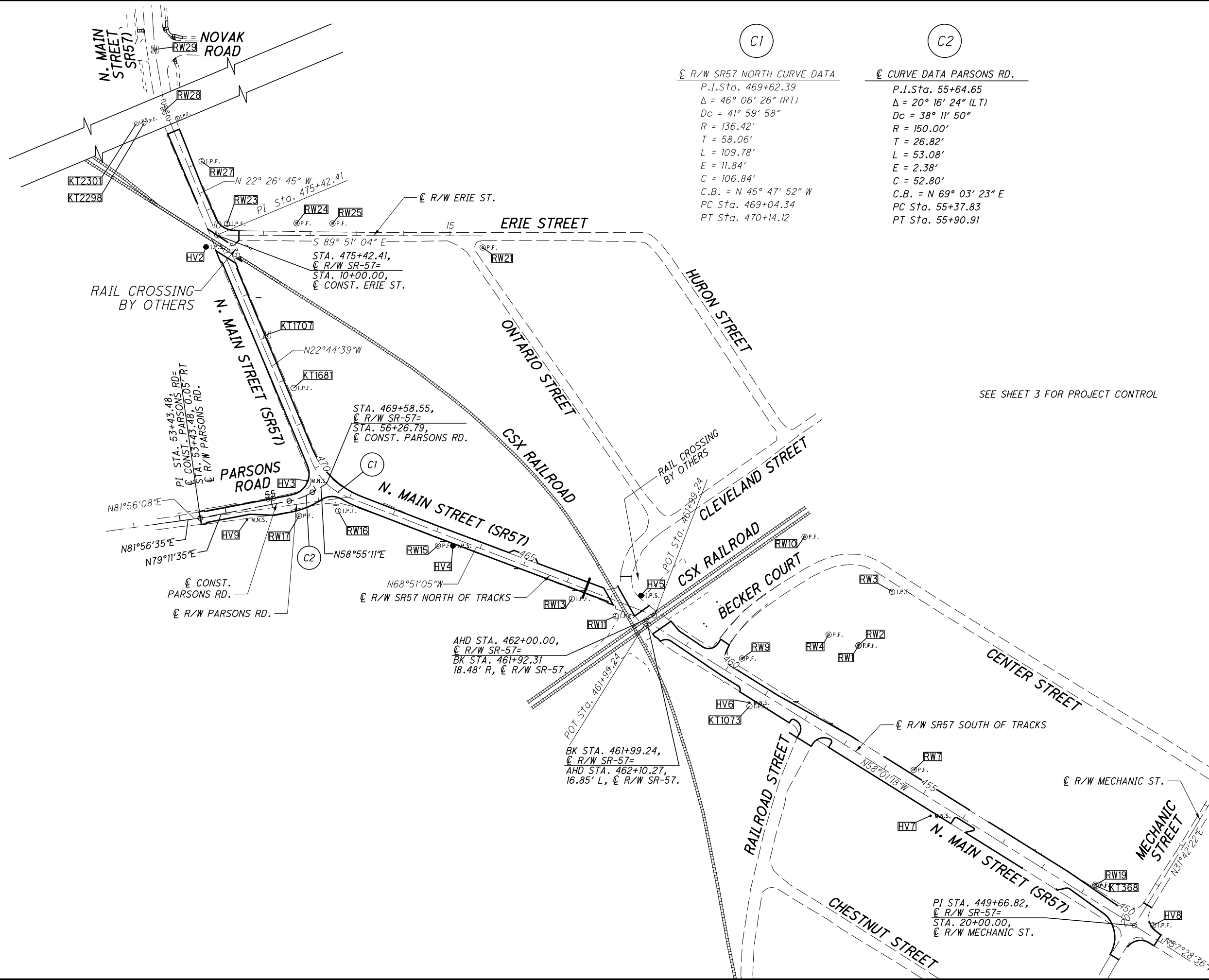
PLAN PREPARED BY:

**POGGEMEYER DESIGN GROUP**  
1168 N. Main Street  
Bowling Green, OH 43402  
A Kleinfelder Company 419.352.7537

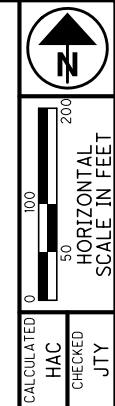
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FEDERAL PROJECT NO. **E210151**  
 PID NO. **113480**  
 CONSTRUCTION PROJECT NO. **CSX**  
 RAILROAD INVOLVEMENT **CSX**  
 LOR-57-8.52  
 ENVISION PHASE 1  
 1/89

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SEE SHEET 3 FOR PROJECT CONTROL

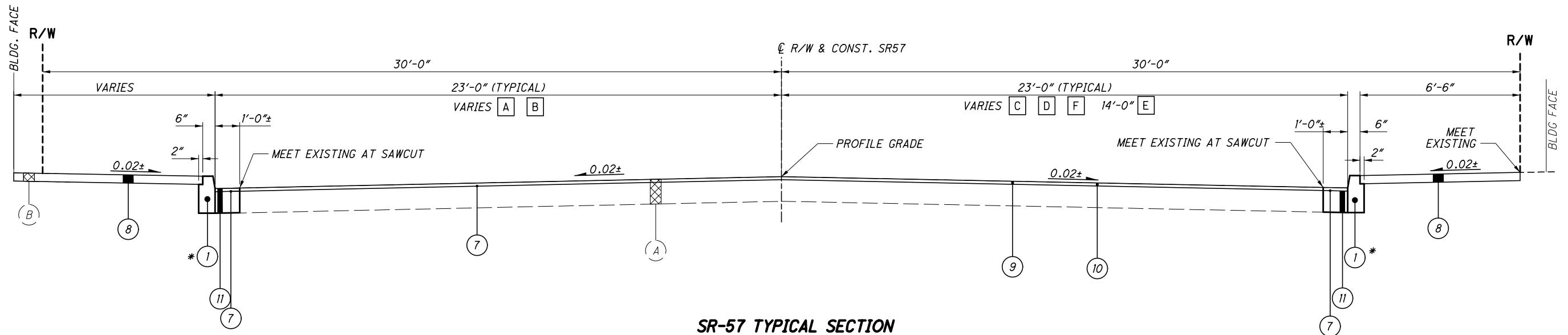


SCHEMATIC PLAN

LOR-57-8.52  
ENVISION PHASE 1

EXISTING PROJECT CONTROL						
POINT NUMBER	GROUND COORDS. (US SURVEY FEET)		STATION	OFFSET	ELEVATION	DESCRIPTION
	NORTHING	EASTING				
C R/W SR57 NORTH OF TRACKS						
HV8	585449.236	2091174.182	449+33.29	22.08	803.29	IPIPS / SR57-MECHANIC
KT368	585533.756	2091051.449	450+81.94	28.46	800.15	IPIPE / 3/4INCOM#994 SR57
RW19	585536.133	2091050.277	450+84.19	29.85	800.57	IPIPE / 3/4IN RES#990
HV7	585684.041	2090696.967	454+62.19	-31.79	799.24	MAGS / COM#963 SR57
RW7	585782.646	2090661.000	455+44.91	32.80	801.35	IPIPE / 3/4IN
RW3	586164.472	2090614.568	457+86.49	332.06	804.36	IPIID / FRED COM#938 SR57
RW1	586048.668	2090542.218	457+86.53	195.53	803.36	IPIID / CANT READ
RW2	586049.785	2090542.891	457+86.55	196.83	803.29	IPIPE / 3/4IN
RW4	586072.424	2090478.432	458+53.21	181.90	803.32	IPIPE / 3/3IN PINCH BENT OVER
HV6	585926.720	2090308.630	459+20.07	-31.60	802.62	MAGS / COM#891 SR57
RW9	586021.351	2090292.465	459+83.90	40.10	802.60	IPIPE / 3/4IN BENT
RW10	586282.384	2090426.813	460+08.18	332.65	803.11	IPIPE / 1.5 IN
C R/W SR57 SOUTH OF TRACKS						
HV5	586156.410	2090076.176	462+41.66	30.00	803.81	IPIPS
RW11	586112.530	2090021.881	462+76.46	-30.51	802.75	IPIID / RR ROW CAN'T READ
RW13	586149.615	2089927.639	463+77.73	-29.93	800.91	IPIID / RR ROW CAN'T READ
HV4	586263.196	2089672.891	466+56.27	-15.91	802.44	IPIPS
RW15	586263.475	2089640.691	466+86.40	-27.26	802.86	IPIPE / 3/4"
RW16	586338.243	2089426.613	469+11.25	-34.99	805.01	IPIID / CAN'T READ
RW17	586327.456	2089342.648	469+55.40	-90.85	805.21	IPIPE / 4"
HV3	586402.275	2089360.239	469+86.90	-28.24	806.06	MAGS
HV9	586318.980	2089231.174	469+88.43	-181.82	803.89	MAGS
KT1681	586601.517	2089331.154	471+76.46	25.23	806.13	IPIPS
RW21	586902.810	2089736.607	472+97.55	515.59	804.67	IPIPE / 4" ROW ERIE & ONTARIO
KT1707	586716.230	2089274.432	473+04.17	17.26	806.50	MONBOX
RW25	586954.371	2089414.426	474+69.65	238.42	806.05	IPIPE / 3/4"
RW24	586954.704	2089337.400	474+99.74	167.52	807.00	IPIPE / 3/4"
HV2	586904.317	2089143.374	475+28.28	-30.88	806.41	IPIPS
RW23	586953.783	2089188.300	475+56.68	29.60	806.20	IPIID / PEARSON
KT2050	586953.907	2089188.557	475+56.70	29.88	806.64	IPIPS
RW27	587087.671	2089133.866	477+01.20	30.41	806.72	IPIPS / PEARSON
HV1	587318.957	2089030.858	479+54.27	23.51	805.40	IPIID / CAN'T READ
KT2298	587304.450	2088935.655	479+77.21	-70.01	804.64	IPIPS
KT2301	587302.737	2088913.239	479+84.18	-91.38	804.25	IPIPS
RW28	587954.723	2088742.777	486+51.80	0.00	800.68	MONBOX / DEFL.
RW29	588987.197	2088565.217		0.00	796.61	MONBOX / NOVAK

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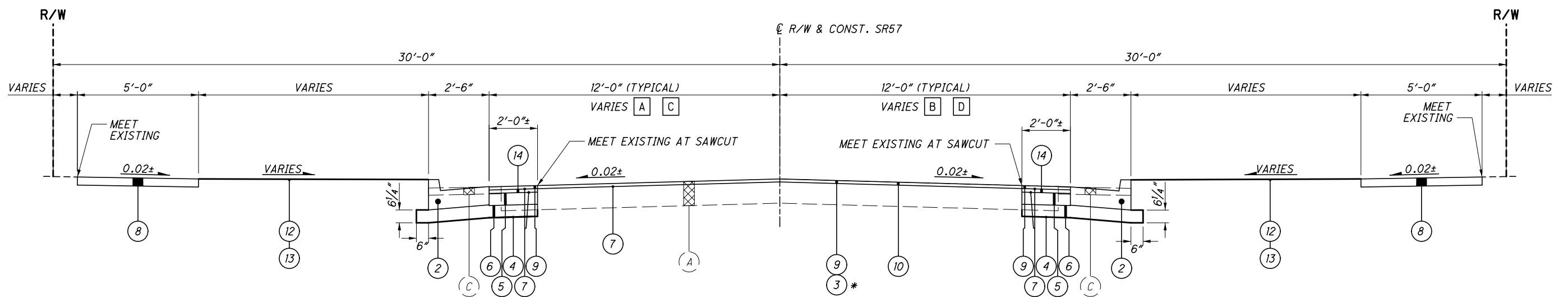
**SR-57 TYPICAL SECTION**

APPLIES: STA. 449+07.90 TO STA. 461+67.00

- A - 12.9' @ STA. 450+36.20 TO 5.85 @ STA. 451+25.83
- B - 14' @ STA. 459+59.74 TO 7.7' @ STA. 461+67.00

\* - WIDTH OF CURB TO BE 6" IF NO WALK IS BEING SUPPORTED

- C - 17.34' @ STA. 450+18.70 TO 23.0' @ STA. 451+50.00
- D - 23.0' @ STA. 457+00.00 TO 14.0' @ STA. 465+75.70
- E - STA. 458+75.70 TO @ STA. 459+97.00
- F - 14.0' @ STA. 459+97.00 TO 19.43' @ STA. 461+35.00



**SR-57 TYPICAL SECTION**

APPLIES: STA. 463+02.40 TO STA. 477+83.27

- A - 9.78' @ STA. 463+03.34 TO 12.0' @ STA. 467+00.00
- C - 12.0' @ STA. 475+26.27 TO 10.5±' @ STA. 476+49.4±

- B - 18.0' @ STA. 463+24.20 TO 12.0' @ STA. 467+00.00
- D - 12.4' @ STA. 476+20.00 TO 14.1±' @ STA. 477+83.27

\* - APPLIES STA. 470+75.00 TO @ STA. 473+80.00

**LEGEND**

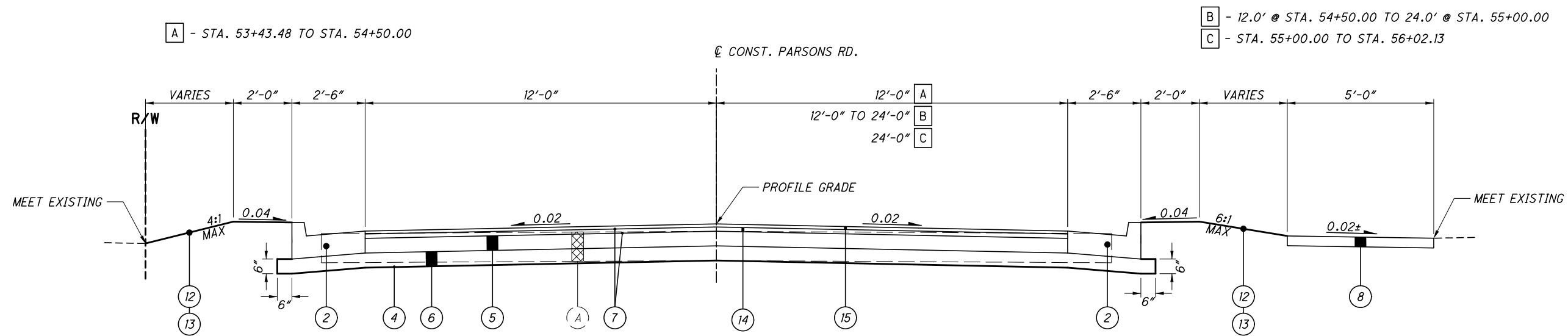
- |  |   |  |
|--|---|--|
| (A) EXISTING 12± ASPHALT EXISTING PAVEMENT                                 | (5) ITEM 301 - 6" ASPHALT CONCRETE BASE, PG64-22  | (12) ITEM 659 - SEEDING & MULCHING   |
| (B) EXISTING WALK  | (6) ITEM 304 - 6" AGGREGATE BASE  | (13) ITEM 659 - COMMERCIAL FERTILIZER  |
| (C) EXISTING 3.5" ASPHALT SHOULDER   | (7) ITEM 407 - NON-TRACKING TACK COAT   | (14) ITEM 441 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)     |
| (1) ITEM 609 - CURB, TYPE 6, AS PER PLAN                                   | (8) ITEM 608 - 4" CONCRETE WALK   | (15) ITEM 441 - 1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22 |
| (2) ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 2                         | (9) ITEM 441 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22                             |  |
| (3) ITEM 441 - 0" MIN. ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448) | (10) ITEM 254 - 1 1/2" PAVEMENT PLANING, ASPHALT CONCRETE   |  |
| (4) ITEM 204 - SUBGRADE COMPACTION   | (11) ITEM 452 - NON-REINFORCED CONCRETE PAVEMENT, COST INCLUDED WITH ITEM 609 - CURB, TYPE 6, AS PER PLAN |  |

TYPICAL SECTIONS - N. MAIN ST. (SR-57)

LOR-57-8.52  
ENVISION PHASE 1



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**PARSONS ROAD TYPICAL SECTION**

APPLIES: STA. 53+43.48 TO STA. 56+20.40

**LEGEND**

- |  |   |  |
|--|---|--|
| (A) EXISTING 12" PAVEMENT  | (5) ITEM 301 - 6" ASPHALT CONCRETE BASE, PG64-22  | (12) ITEM 659 - SEEDING & MULCHING   |
| (B) EXISTING WALK  | (6) ITEM 304 - 6" AGGREGATE BASE  | (13) ITEM 659 - COMMERCIAL FERTILIZER  |
| (C) EXISTING 3.5" ASPHALT SHOULDER   | (7) ITEM 407 - NON-TRACKING TACK COAT   | (14) ITEM 441 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)     |
| (1) ITEM 609 - CURB, TYPE 6, AS PER PLAN                                   | (8) ITEM 608 - 4" CONCRETE WALK   | (15) ITEM 441 - 1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22 |
| (2) ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 2                         | (9) ITEM 441 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22                             |  |
| (3) ITEM 441 - 0" MIN. ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448) | (10) ITEM 254 - 1 1/2" PAVEMENT PLANING, ASPHALT CONCRETE   |  |
| (4) ITEM 204 - SUBGRADE COMPACTION   | (11) ITEM 452 - NON-REINFORCED CONCRETE PAVEMENT, COST INCLUDED WITH ITEM 609 - CURB, TYPE 6, AS PER PLAN |  |

**GENERAL SPECIFICATIONS**

ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE VILLAGE OF GRAFTON AND THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION 2019 CONSTRUCTION AND MATERIAL SPECIFICATIONS.

**REGULATIONS**

ALL WORK MUST COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS IN ALL RESPECTS, INCLUDING COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.

**ROUNDING**

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLY TO ALL CROSS-SECTIONS EVEN THOUGH OTHER- WISE SHOWN.

**REFERENCES**

TO THE DEPARTMENT, DCE, DDD, DET, ENGINEER, OR INSPECTOR IN THE STANDARD SPECIFICATIONS SHALL BE CONSIDERED REFERENCES TO THE DESIGNATED REPRESENTATIVE OF THE OF THE VILLAGE OF GRAFTON.

**UTILITIES**

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

SEWER, WATER AND POWER	VILLAGE OF GRAFTON 960 MAIN STREET GRAFTON, OHIO 44044 (440) 926-2401
TELEPHONE	FRONTIER 6223 NORWALK ROAD MEDINA, OHIO 44256 (330) 722-9586
GAS	COLUMBIA GAS OF OHIO 3101 NORTH RIDGE ROAD EAST LORAIN, OHIO 44055 (440) 420-8432
CABLE TELEVISION	GLW BROADBAND 933 COMMERCE DRIVE GRAFTON, OHIO 44044 (440) 926-3230
PIPELINE	BUCKEYE PARTNERS FIVE TEK PARK 9999 HAMILTON BLVD. BREINIGSVILLA, PA 18031 (610) 904-4409

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

**WORK LIMITS**

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

**ITEM 204 - PROOF ROLLING**

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING.

ITEM 204 - PROOF ROLLING 3 HOUR.

**SURVEYING PARAMETERS**

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 3 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

**PROJECT CONTROL**

POSITIONING METHOD: GPS (ODOT VRS)  
MONUMENT TYPE: CORS

**VERTICAL POSITIONING**

ORTHOMETRIC HEIGHT DATUM: NAVD 88  
GEOID: GEOID 12A

**HORIZONTAL POSITIONING**

REFERENCE FRAME: NAD83 (2011)  
ELLIPSOID: GRS805  
MAP PROJECTION: LAMBERT CONFORM/CONIC  
COORDINATE SYSTEM: NAD83 NORTH ZONE  
COMBINED SCALE FACTOR: 1.000877683  
ORIGIN OF COORDINATE SYSTEM: N 0.0000000  
E 0.0000000

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

**CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES**

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

**REVIEW OF DRAINAGE FACILITIES**

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE VILLAGE, REPRESENTATIVES OF THE VILLAGE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE VILLAGE.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE VILLAGE.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

**SEEDING AND MULCHING**

SEE SHEET 14 FOR QUANTITIES PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

**SEEDING AND MULCHING OF LAWNS**

IN ADDITION TO "AREAS IN FRONT OF RESIDENCES" REFERRED TO IN 659.09, THE SPECIAL PREPARATION SHALL BE EXTENDED TO ENCOMPASS ALL LAWNS AND/OR LAWN-LIKE AREAS AS DETERMINED BY THE ENGINEER.

**ITEM 204, EXCAVATION OF SUBGRADE**

IF UNSUITABLE FOUNDATION SOILS ARE ENCOUNTERED IN THE AREAS OF THE PROPOSED PAVEMENT, THEY WILL BE REMOVED AND REPLACED WITH GRANULAR MATERIAL, TYPE C. THE LOCATIONS AND DIMENSIONS WILL BE AS DIRECTED BY THE ENGINEER.

ACTUAL SUBGRADE IMPROVEMENT AREAS, DEPTHS AND METHODS WILL VARY BASED ON THE RESULTS OF THE PROOF ROLL AND SHALL BE AS DIRECTED BY THE ENGINEER.

THE FOLLOWING CONTINGENCY QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER:

ITEM 204, EXCAVATION OF SUBGRADE 30 CU. YD.

ITEM 204, GRANULAR EMBANKMENT 30 CU. YD.

ITEM 204, GEOTEXTILE FABRIC 100 SQ. YD.

**CLEARING AND GRUBBING**

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

**MANHOLES, CATCH BASINS, AND INLETS REMOVED OR ABANDONED**

ALL CASTINGS SHALL BE CAREFULLY REMOVED AND STORED WITHIN THE RIGHT OF WAY FOR SALVAGE BY VILLAGE FORCES.

PAYMENT FOR ALL OF THE ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 202 ITEM.

**RESIDENTIAL AND COMMERCIAL DRAINAGE CONNECTIONS**

EXISTING ROOF DRAINS, FOOTER DRAINS, OR YARD DRAINS, DISTURBED BY THE WORK, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS BY CONNECTING A CONDUIT INTO THE PROPOSED DITCH OR A DRAINAGE STRUCTURE. THE LOCATION, TYPE, SIZE AND GRADE OF THE NEW CONDUIT REQUIRED TO REPLACE OR EXTEND THE EXISTING DRAIN WILL BE DETERMINED BY THE ENGINEER.

THE FOLLOWING CONDUIT TYPES MAY BE USED: 707.33, 707.41 NON-PERFORATED, 707.42, 707.43, 707.45, 707.46, 707.47, 707.51 OR 707.52 PS46 MIN.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR THE WORK NOTED ABOVE:

611, 6" CONDUIT, TYPE B, FOR DRAINAGE CONNECTION	100 FT.
611, 6" CONDUIT, TYPE C, FOR DRAINAGE CONNECTION	100 FT.

**CONSTRUCTION NOISE**

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVICES BETWEEN THE HOURS OF 8 PM AND 7 AM. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

**EXISTING SURVEY POINTS**

SURVEY MONUMENTS, PROPERTY PINS, BENCHMARKS AND EXISTING CONTROL POINTS DAMAGED OR DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE REPLACED BY AN OHIO REGISTERED LAND SURVEYOR A THE CONTRACTOR'S EXPENSE. SHOULD THE CONTRACTOR FAIL TO REPLACE THESE POINTS, THE OWNER SHALL REPLACE THEM AT THE CONTRACTOR'S EXPENSE AFTER THREE WEEKS NOTICE.

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GENERAL NOTES

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**PAVEMENT RESTORATION FOR PIPE INSTALLATIONS AND/OR REMOVALS**

THE FOLLOWING QUANTITY HAS BEEN PROVIDED FOR PAVEMENT RESTORATION FOLLOWING INSTALLATION AND/OR REMOVAL OF PIPES.

ITEM 301 - ASPHALT CONCRETE BASE, PG64-22 40 CU. YDS.

THE ABOVE QUANTITY IS BASED ON A 301 THICKNESS OF 12 INCHES AND A PAVEMENT RESTORATION WIDTH THAT INCLUDES THE TRENCH WIDTH PLUS TWO FEET ON EACH SIDE OF THE TRENCH.

PROVIDE ANY MATERIALS USED OUTSIDE THE LIMITS STATED ABOVE AT NO ADDITIONAL COST.

**PAVEMENT RESTORATION FOR DRAINAGE STRUCTURE INSTALLATIONS**

THE FOLLOWING QUANTITY IS PROVIDED FOR PAVEMENT RESTORATION FOLLOWING INSTALLATION OF ITEM 611, DRAINAGE STRUCTURES.

ITEM 301, ASPHALT CONCRETE BASE, PG64-22 5 CU. YDS.

THE ABOVE QUANTITY IS BASED ON A 301 THICKNESS OF 12 INCHES AND A WIDTH OF TWO FEET AROUND THE PERIMETER OF THE DRAINAGE STRUCTURE.

PROVIDE ANY MATERIALS USED OUTSIDE THE LIMITS STATED ABOVE AT NO ADDITIONAL COST.

**ITEM 638 - WATER SERVICE VALVE REPLACEMENT, AS PER PLAN**

THE WATER SERVICE VALVES LOCATED BETWEEN STA. 450+00 AND 460+00, LEFT SHALL BE INSPECTED BY THE CONTRACTOR AND THE VILLAGE. IF IT IS DETERMINED BY THE VILLAGE THAT THE VALVES SHALL BE REPLACED THEN THE CONTRACTOR SHALL REPLACE THE VALVES AND ANY NECESSARY SERVICE LINE AS DIRECTED BY THE VILLAGE. THE VALVES SHALL BE xxxxx. ALL COST ASSOCIATED WITH THE REPLACEMENT OF THE VALVE INCLUDING EXCAVATION, BACKFILLING AND DISINFECTING SHALL BE INCLUDED IN THE COST OF ITEM 638 - WATER SERVICE VALVE REPLACEMENT, AS PER PLAN. THE FOLLOWING CONTINGENCY QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER:

ITEM 638 - 3/4" COPPER SERVICE BRANCH	50 FT
ITEM 638 - 1" COPPER SERVICE BRANCH	50 FT
ITEM 638 - WATER SERVICE VALVE REPLACEMENT, AS PER PLAN	12 EACH
VALVE BOX ????	

**PROTECTION OF BUILDING FACES THE CONTRACTOR IS**

RESPONSIBLE TO PROTECT BUILDING FACES AT ALL TIMES DURING CONSTRUCTION, ESPECIALLY DURING EXCAVATION AND THE PLACEMENT OF CONCRETE. THE CONTRACTOR SHALL COVER THE LOWER PORTION OF ANY BUILDING DURING OPERATIONS TO PREVENT CONCRETE SPLATTER, OVERSPRAY OR DEBRIS FROM HITTING OR STICKING TO THE BUILDING FACES. ANY CONSTRUCTION RESIDUE OR DAMAGE CAUSED BY THE CONTRACTOR TO BUILDING FACES SHALL BE REMOVED BY THE CONTRACTOR TO THE SATISFACTION OF THE VILLAGE AND BUILDING OWNER AT NO COST TO THE VILLAGE. PROTECTION OF THE BUILDINGS SHALL BE CONSIDERED INCIDENTAL TO THE OVERALL PROJECT.

**ENVIRONMENTAL COMMITMENTS**

**PETROLEUM CONTAMINATED SOIL (PCS):** ENVIRONMENTAL STUDIES HAVE SHOWN THAT THERE IS POTENTIAL OF ENCOUNTERING PCS SOIL DURING EXCAVATIONS FOR CONSTRUCTION ACTIVITIES AT: GRABELLE PROPERTIES LLC (697 NORTH MAIN STREET, GRAFTON OH) PARCEL #50. IN THE EVENT PCS IS ENCOUNTERED, THE CONTRACTOR SHALL MANAGE THIS MATERIAL ACCORDING TO THE FOLLOWING NOTES. THE ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THIS WORK. ALL EXCAVATIONS AT THE AFOREMENTIONED LOCATION SHALL BE PAID FOR UNDER THE ORIGINAL PLAN BID ITEMS. ALL POTENTIAL PCS WITHIN THE AFOREMENTIONED LIMITS, EXCAVATED BY THE CONTRACTOR AT THIS LOCATION MAY BE STOCKPILED IN AN AREA PROVIDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. THE ENGINEER MAY PERMIT TEMPORARY STORAGE OF THE EXCAVATED MATERIAL IN A LINED AND COVERED ROLL-OFF BOX. THE ENGINEER MAY PERMIT TEMPORARY STORAGE OF THE EXCAVATED MATERIAL IN AN IMPERMEABLE MEMBRANE. THE MEMBRANE SHALL BE SURROUNDED BY BALES OF STRAW TO PREVENT THE SUSPECTED SOIL FROM COMING IN CONTACT WITH THE ORIGINAL SOIL. AN IMPERMEABLE MEMBRANE SHALL BE PLACED OVER THE STOCKPILE TO PREVENT CONTACT WITH PRECIPITATION AND/OR SURFACE RUN-OFF. THE ENGINEER MAY PERMIT THE CONTRACTOR TO DIRECT LOAD THE EXCAVATED CONTAMINATED MATERIAL INTO TRUCKS. IF EXCAVATIONS WITHIN THE AFOREMENTIONED LIMITS REQUIRE DEWATERING FOR CONSTRUCTION PURPOSES, THE CONTRACTOR SHALL DEWATER, CONTAINERIZE, TEST THE WATER AND DISPOSE OF BY METHODS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF REGULATED WATER WITH A METHOD APPROVED BY THE ENGINEER. WORK INVOLVED WITH THIS ITEM SPECIAL INCLUDES COMPLYING WITH THE HANDLING, STORAGE, AND DISPOSAL OF REGULATED AND NON-REGULATED WATER. THIS MATERIAL SHALL BE PROPERLY TESTED (FOR DISPOSAL), TRANSPORTED, AND DISPOSED OF IN A LICENSED (BY THE LOCAL HEALTH DEPARTMENT) AND PERMITTED (THE OHIO ENVIRONMENTAL PROTECTION AGENCY) SOLID WASTE FACILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS AND TO TRANSPORT THE MATERIAL. PAYMENT FOR THIS WORK SHALL BE MADE AT THE CONTRACT PRICE BID PER UST AND/OR TON. THE BASIS FOR CONVERSION FROM TONS TO CUBIC YARDS IS 1.5 TON/CUBIC YARD. ALL EXCAVATIONS WITHIN THE AFOREMENTIONED LIMITS SHALL BE PAID FOR UNDER THE ORIGINAL PLAN BID ITEMS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE ORIGINAL GENERAL SUMMARY FOR THE WORK NOTED ABOVE.

690E65016 ITEM SPECIAL - WORK INVOLVING PETROLIUM CONTAMINATED SOILS	125 TONS
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ALL EXCAVATING, EMBANKMENT, REMOVAL OF THE CONCRETE PAD, PIPING, HATCHES, AND ALL ASSOCIATED EQUIPMENT SHALL BE INCLUDED IN THE ABOVE ITEM.

**ITEM 253 - PAVEMENT REPAIR**

PAVEMENT REPAIR SHALL MATCH THE DEPTH OF THE EXISTING ASPHALT PAVEMENT OR BE A MAXIMUM THICKNESS OF 10". THE REPAIR SHALL CONSISTING OF ITEM 301, ASPHALT CONCRETE BASE, PG54-22. THE FOLLOWING CONTINGENCY QUANTITY IS PROVIDED TO ACCOUNT FOR PAVEMENT REPAIR:

ITEM 253 - PAVEMENT REPAIR	350 SY
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**PERSONAL PROTECTION EQUIPMENT (PPE)**

THE CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF SECTIONS XXIV AND XXXIV OF THE OHIO DEPARTMENT OF TRANSPORTATION SAFETY & HEALTH STANDARD OPERATING PROCEDURE 220-006(SP) EFFECTIVE: NOVEMBER 1, 2018 (EXCEPT AS AMENDED BELOW) AND ALL SUBSEQUENT UPDATES POSTED AT THE FOLLOWING WEBSITE:

HTTP://WWW.DOT.STATE.OH.US/POLICY/POLICIESANDSOPS/POLICIES/220-006(SP).PDF

AMENDMENTS TO THE REQUIREMENTS OF THIS DOCUMENT ARE: XXIV. HEAD PROTECTION (HARD HATS) ALL PERSONS WITHIN THE RIGHT-OF-WAY OF ANY HIGHWAY OR ANY OTHER TYPE OF ROADWAY OR CONSTRUCTION SITE WHO ARE EXPOSED TO EITHER TRAFFIC (VEHICLES USING THE HIGHWAY FOR PURPOSES OF TRAVEL) OR CONSTRUCTION EQUIPMENT WITHIN THE WORK AREA, REGARDLESS OF JOB TYPE, SHALL WEAR APPROPRIATE HEAD PROTECTION. ALL HARD HATS MUST MEET OR EXCEED ANSI Z89.1-2009 TYPE I, CLASS E-G REQUIREMENTS.

XXXIV. SAFETY APPAREL AND VEST (HIGH VISIBILITY) ALL PERSONS WITHIN THE RIGHT-OF-WAY OF ANY HIGHWAY OR ANY OTHER TYPE OF ROADWAY OR CONSTRUCTION SITE WHO ARE EXPOSED TO EITHER TRAFFIC (VEHICLES USING THE HIGHWAY FOR PURPOSES OF TRAVEL) OR CONSTRUCTION EQUIPMENT WITHIN THE WORK AREA, REGARDLESS OF JOB TYPE, SHALL WEAR A HIGH-VISIBILITY SAFETY VEST THAT MEETS THE PERFORMANCE CLASS II OR CLASS III REQUIREMENTS OF THE ANSI/ ISEA 107-2015 PUBLICATION ENTITLED "AMERICAN NATIONAL STANDARD FOR HIGH-VISIBILITY SAFETY APPAREL AND ACCESSORIES."

WORKERS MAY WEAR AN ANSI CLASS II OR ANSI CLASS III APPROVED RAIN SUIT, JACKET OR OTHER APPAREL WITHOUT A SAFETY VEST OVER IT.

**ITEM 632, REMOVAL OF TRAFFIC SIGNAL INSTALLATION**

THE MECHANIC STREET AND MAIN STREET TRAFFIC SIGNAL INSTALLATION, INCLUDING SIGNAL HEADS, CABLE, MESSENGER WIRE, STRAIN POLES, CABINET, CONTROLLER, ETC., SHALL BE REMOVED IN ACCORDANCE WITH C&MS 632.26 AND AS INDICATED ON THE PLANS. REMOVED ITEMS SHALL BE STORED ON THE PROJECT FOR SALVAGE BY THE VILLAGE OF GRAFTON IN ACCORDANCE WITH THE LISTING GIVEN HEREIN.

ITEMS TO BE STORED FOR SALVAGE:  
PED HEADS & MOUNTINGS  
SIGNAL HEADS & MOUNTINGS  
CONTROLLER CABINET & CONTENT

ITEMS TO BE DISPOSED:  
WIRING AND CONDUIT  
ALL OTHER ITEMS

IN THE EVENT THE ITEMS STORED ON THE PROJECT FOR SALVAGE ARE NOT REMOVED, THE CONTRACTOR SHALL, WHEN DIRECTED BY THE ENGINEER IN WRITING, REMOVE AND DISPOSE OF THE ITEMS AT NO ADDITIONAL COST TO THE PROJECT.

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GENERAL NOTES

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**ITEM 614, MAINTAINING TRAFFIC**

A MINIMUM OF ONE, 11 FOOT WIDE LANE OF TRAFFIC IN EACH DIRECTION ON N. MAIN ST. (SR-57) SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR THE FOLLOWING:

WHEN NECESSITATED BY CONSTRUCTION, ONE-WAY TRAFFIC FLOW MAY BE ESTABLISHED. A TRAFFIC LANE AT LEAST 12 FEET WIDE SHALL BE PROVIDED WITH TRAFFIC FLOW CONTROLLED BY AT LEAST TWO FLAGGERS. TRAFFIC CONTROL DEVICES SHALL BE PLACED TO LIMIT TRAFFIC TO ONE LANE IN ACCORDANCE WITH THE OHIO MANUAL AND ODOT STANDARD DRAWING MT-97.10 AND MT-97.11. IN NO CASE WILL ONE-WAY FLOW BE PERMITTED UNTIL ADEQUATE TRAFFIC CONTROL DEVICES AND FLAGGERS ARE IN PLACE AND APPROVED BY THE ENGINEER. THE ONE-WAY TRAFFIC OPERATION SHALL BE LIMITED TO DAYLIGHT HOURS ONLY. THE ROAD SHALL BE REOPENED TO TWO-WAY TRAFFIC FLOW AT NIGHT AND AT ALL TIMES WHEN THE CONTRACTOR IS NOT WORKING SUCH AS WEEKENDS, HOLIDAYS, OR WHEN WORK IS SUSPENDED DUE TO WEATHER CONDITIONS.

PEDESTRIAN TRAFFIC SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING WALKS, PROPOSED WALKS, OR TEMPORARY WALKING SURFACES. PEDESTRIAN TRAFFIC ALONG SIDEWALKS MAY BE DETOURED TO A SIDEWALK ALONG THE OPPOSITE SIDE OF THE ROADWAY. PEDESTRIAN DETOURS SHALL BE IN ACORDANCE WITH THE OMUTCD AND STD. DWG. MT-110.10

THE CONSTRUCTION WILL REQUIRE THE CLOSING OF PARSONS ROAD. THE CONTRACTOR SHALL PROVIDE, ERECT, AND MAINTAIN SIGNS IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD). THE TOTAL CLOSURE PERIOD SHALL NOT EXCEED 14 CONSECUTIVE CALENDAR DAYS. FOR EACH CALENDAR DAY BEYOND THE RESPECTIVE CALENDAR DAYS ALLOWED THAT THE ROADWAY REMAINS CLOSED TO TRAFFIC, THE CONTRACTOR WILL BE ASSESSED LIQUIDATED DAMAGES IN THE AMOUNT NOTED IN SECTION 108.07 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS.

A DETOUR ROUTE FOR PARSONS ROAD AS INDICATED ON THE PLAN WILL BE PROVIDED, SIGNED AND MAINTAINED BY THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST FOURTEEN (14) CALENDAR DAYS PRIOR TO CLOSING THE ROAD TO TRAFFIC. UNTIL THE DETOUR IS IN EFFECT, TWO WAY THROUGH TRAFFIC SHALL BE MAINTAINED ON EXISTING ASPHALT PAVEMENT.

THE DETOUR ROUTE SHALL BE AS INDICATED ON THE PLANS. THE CONTRACTOR SHALL PROVIDE, ERECT, AND MAINTAIN "ROAD CLOSED XX MILES AHEAD" (R11-3A-60) SIGNS ON TYPE III BARRICADES WITH FLASHING WARNING LIGHTS IN ACCORDANCE WITH THE OMUTCD AT THE POINTS OF DETOUR.

IN ADDITION TO THE PREVIOUSLY DESCRIBED SIGNS FOR THE CLOSURE, THE CONTRACTOR SHALL PROVIDE, ERECT, AND MAINTAIN TRAFFIC CONTROL BARRICADES, SIGNS, ETC. IN ACCORDANCE WITH ODOT STANDARD DRAWING MT 101.60, AT THE ACTUAL POINTS OF CLOSURE.

THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS TO ALL DOORWAYS BY USE OF THE REMAINING EXISTING WALK OR PROVISIONS SHALL BE MADE TO PROVIDE TEMPORARY PLYWOOD OR OTHER SUITABLE ACCESS RAMPS WITH AT LEAST ONE HANDRAIL INTO ALL BUSINESSES OR APARTMENTS WHEN PAVEMENT OR STONE SURFACES ARE UNAVAILABLE. THE CONTRACTOR SHALL NOTIFY THE SURROUNDING BUSINESSES 24 HOURS IN ADVANCE OF ANY DISRUPTION OF ACCESS TO THE BUSINESSES.

LENGTH AND DURATION OF PARKING CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. PARKING CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

THE CONTRACTOR(S) SHALL FURNISH A PHASING PLAN TO THE ENGINEER FOR APPROVAL PRIOR TO BEGINNING WORK. THE OBJECTIVE OF THE PLAN WILL BE TO COMPLETE THE WORK WITH THE LEAST DISRUPTION TO THE BUSINESS DISTRICT. THE PLAN SHALL ALSO ADDRESS THE MAINTENANCE OF PEDESTRIAN TRAFFIC.

THE CONTRACTOR SHALL MAINTAIN TWO WAY THROUGH TRAFFIC AT ALL OTHER TIMES OF ROAD CONSTRUCTION NOT PREVIOUSLY MENTIONED. DURING PERIODS WHERE TWO WAY TRAFFIC IS MAINTAINED. THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN THE FOLLOWING SIGNS IN ACCORDANCE WITH OMUTCD:

- A) "ROAD WORK AHEAD" (W20-1) B) "END ROAD WORK" (G20-2)

TRAFFIC CONTROL DEVICES SHALL BE SET UP PRIOR TO THE START OF CONSTRUCTION AND SHALL BE PROPERLY MAINTAINED DURING THE TIME SUCH SPECIAL CONDITIONS EXIST. THEY SHALL REMAIN IN PLACE ONLY AS LONG AS THEY ARE NEEDED AND SHALL BE IMMEDIATELY REMOVED THEREAFTER. ALL SIGNS WITH MESSAGES WHICH DO NOT APPLY DURING A CERTAIN PERIOD SHALL BE COVERED OR SET ASIDE OUT OF VIEW OF TRAFFIC. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN PROPER POSITION, CLEAN, LEGIBLE AND IN GOOD WORKING CONDITION AT ALL TIMES.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE A THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DETERMINED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC.

- ITEM 410, TRAFFIC COMPACTED SURFACE, TYPE A OR B 50 CU. YD.
- ITEM 614, ASPHALT CONCRETE FOR MAINTAINING TRAFFIC 10 CU. YD.

**ACCESS**

THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION PHASES AND OPERATIONS IN A MANNER THAT PROVIDES ACCESS TO PROPERTY OWNERS/TENANTS AS PER 614.02(A). THE CONTRACTOR SHALL COORDINATE DRIVE CLOSURES WITH THE PROPERTY OWNERS OR TENANTS AND PROVIDE THEM 24 HOUR NOTICE OF ANY CLOSURES.

**DUST CONTROL**

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL, AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED FOR DUST CONTROL PURPOSES.

- ITEM 616, WATER 10 M GAL.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH CMS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM, 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

**NOTIFICATION OF TRAFFIC RESTRICTIONS**

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

**TRENCH FOR CURB REPLACEMENT**

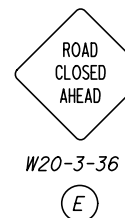
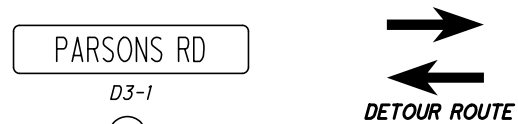
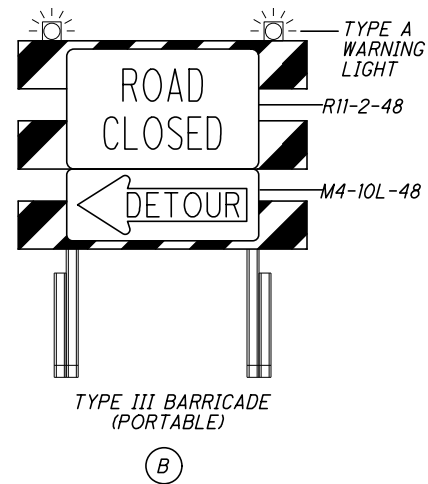
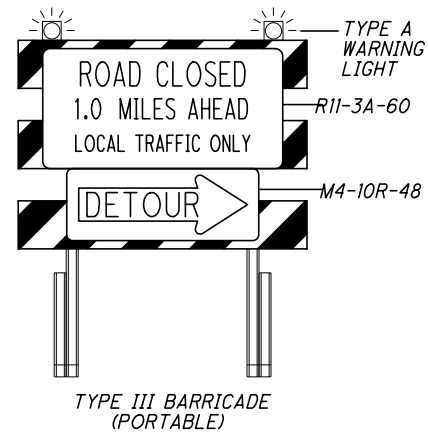
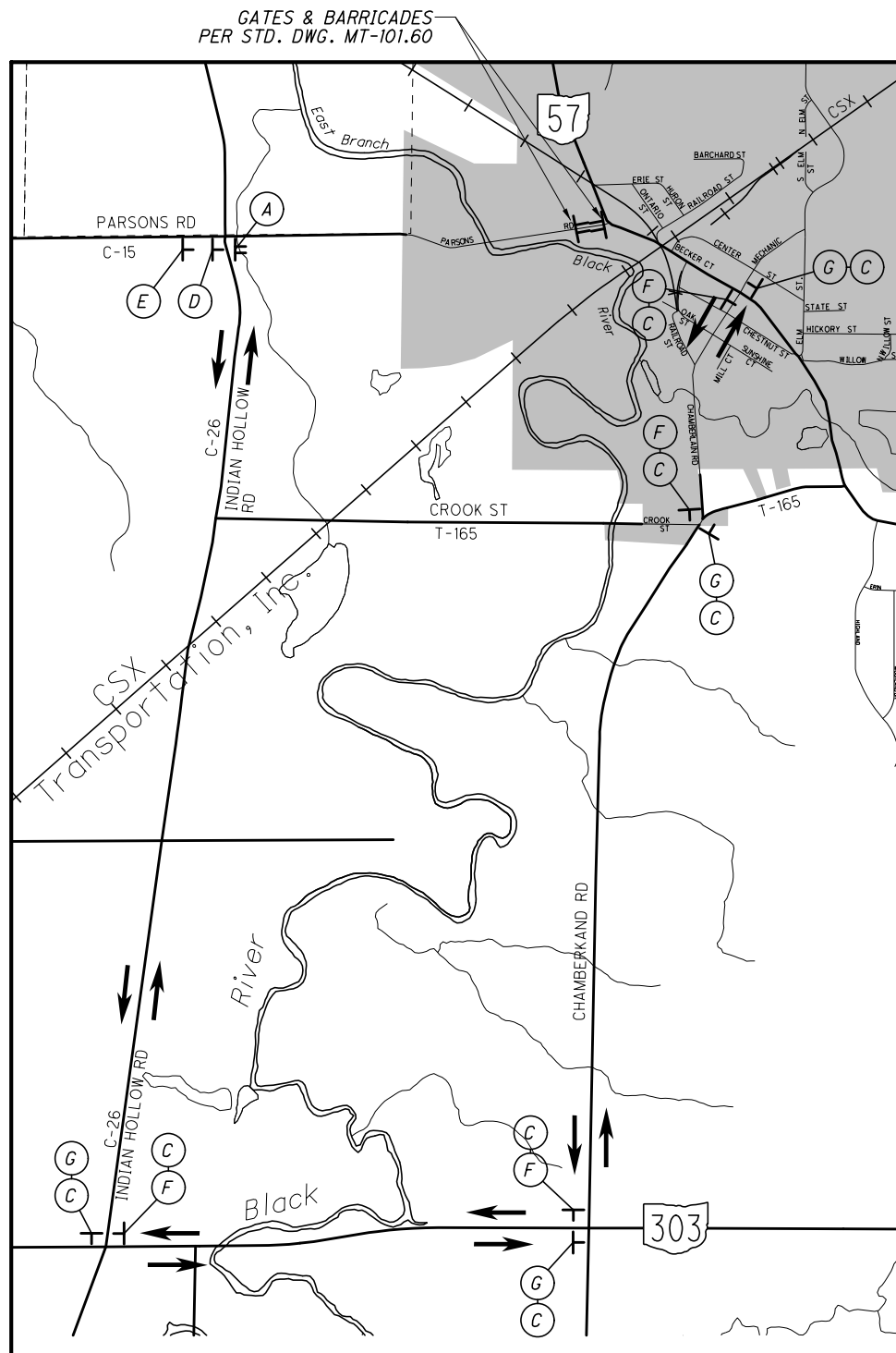
TRENCH EXCAVATION FOR CURB REPLACEMENT SHALL BE ONLY ON ONE SIDE OF THE PAVEMENT AT A TIME. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTION WITH DRUMS OR BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED BACKFILL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF CURB REPLACEMENT TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE ENGINEER. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT UNPROTECTED. IN CASE WORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UNCOMPLETED CURB REPLACEMENT SHALL BE BACKFILLED AT THE DIRECTION OF THE ENGINEER.

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MAINTENANCE OF TRAFFIC GENERAL NOTES

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**NOTICE OF CLOSURE SIGNS**

NOTICE OF CLOSURE SIGNS, (W20-H13), SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD CLOSURE. THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE.

**NOTICE OF CLOSURE SIGN TIME TABLE**

ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
RAMP &	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
ROAD	> 12 HOURS & < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
CLOSURES	< 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

**NOTIFICATION OF TRAFFIC RESTRICTIONS**

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

**NOTIFICATION TIME TABLE**

ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
RAMP &	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
ROAD	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
CLOSURES	< 12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE

LANE	DURATION OF CLOSURE & RESTRICTIONS	NOTICE DUE TO PERMITS & PIO
LANE	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
CLOSURES & RESTRICTIONS	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE

START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES N/A

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TABLE.

SHEET NUM.										PART.				ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
6	7	12	13	14	15	16	18	58	63	01/MPO/O T	02/SAE/O T	03/S>2/OT	04/S>2/PV						
<b>ROADWAY</b>																			
										0.2	0.35	0.45		201	11000	LS	CLEARING AND GRUBBING		
				1,598		3,193		193		2,741	2,243			202	23000	4,984	PAVEMENT REMOVED		
				19,500						11,053	8,447			202	30000	19,500	WALK REMOVED		
			1,768								1,768			202	32000	1,768	CURB REMOVED		
			153								153			202	32500	153	CURB AND GUTTER REMOVED		
		83										83		202	34900	83	PIPE REMOVED		
		12										12		202	58300	12	CATCH BASIN OR INLET REMOVED		
							28				28			202	75000	28	FENCE REMOVED		
									1		1			202	98100	1	REMOVAL MISC.:COMMERCIAL SIGN AND FOUNDATION REMOVAL		
					494						494			203	10000	494	EXCAVATION		
					862						862			203	20000	862	EMBANKMENT		
														204	10000	2,352	SUBGRADE COMPACTION		
30						2,352				6	11	13		204	13000	30	EXCAVATION OF SUBGRADE		
30										6	11	13		204	21000	30	GRANULAR EMBANKMENT		
3												3		204	45000	3	PROOF ROLLING		
100										20	35	45		204	50000	100	GEOTEXTILE FABRIC		
					25,250					14,004	11,246			608	10000	25,250	4" CONCRETE WALK		
										363	652			608	13000	1,015	6" CONCRETE WALK		
										1,590	1,161			608	15000	2,751	8" CONCRETE WALK		
					2,470						2,470			608	52000	2,470	CURB RAMP		
												7		SPECIAL	69050600	7	BOLLARD		
		125									125			SPECIAL	69065016	125	WORK INVOLVING PETROLEUM CONTAMINATED SOIL	7	
<b>EROSION CONTROL</b>																			
					354					71	124	159		659	00300	354	TOPSOIL		
					3,191					638	1,117	1,436		659	10000	3,191	SEEDING AND MULCHING		
					160					32	56	72		659	14000	160	REPAIR SEEDING AND MULCHING		
					160					32	56	72		659	15000	160	INTER-SEEDING		
					0.46					0.09	0.16	0.21		659	20000	0.46	COMMERCIAL FERTILIZER		
										4	6	8		659	35000	18	WATER		
					18					0.2	0.35	0.45		832	15000	LS	STORM WATER POLLUTION PREVENTION PLAN		
										5,000	8,750	11,250		832	30000	25,000	EROSION CONTROL		
<b>DRAINAGE</b>																			
			10									10		611	00100	10	4" CONDUIT, TYPE B		
			20									20		611	00900	20	6" CONDUIT, TYPE B		
100												100		611	00900	100	6" CONDUIT, TYPE B, FOR DRAINAGE CONNECTION		
100												100		611	01100	100	6" CONDUIT, TYPE C, FOR DRAINAGE CONNECTION		
			176									176		611	01800	176	8" CONDUIT, TYPE B		
					369							369		611	04400	369	12" CONDUIT, TYPE B		
					187							187		611	04600	187	12" CONDUIT, TYPE C		
					190							190		611	05900	190	15" CONDUIT, TYPE B		
					5							5		611	10400	5	24" CONDUIT, TYPE B		
												10		611	98180	10	CATCH BASIN, NO. 3A		
												6		611	98370	6	CATCH BASIN, NO. 6		
												4		611	98470	4	CATCH BASIN, NO. 2-2B		
												1		611	98510	1	CATCH BASIN, NO. 2-3		
												6		611	98630	6	CATCH BASIN ADJUSTED TO GRADE		
												5		611	98631	5	CATCH BASIN ADJUSTED TO GRADE, AS PER PLAN	22	
												6		611	99654	6	MANHOLE ADJUSTED TO GRADE		

**GENERAL SUMMARY**

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ENVISION PHASE 1

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SHEET NUM.								PART.				ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED HAC	CHECKED JTY
7	8	13	16	58	61	63	74	01/MPO/O T	02/SAE/O T	03/S>2/OT	04/S>2/PV								
PAVEMENT																			
350											350	253	01000	350	SY	PAVEMENT REPAIR			
			9,232								9,232	254	01000	9,232	SY	PAVEMENT PLANING, ASPHALT CONCRETE			
45			275						275	45		301	46000	320	CY	ASPHALT CONCRETE BASE, PG64-22			
			422						422			304	20000	422	CY	AGGREGATE BASE			
			1,061						161		900	407	20000	1,061	GAL	NON-TRACKING TACK COAT			
			459						36		423	441	50000	459	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22			
			30						30			441	50200	30	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448)			
			80						80			441	50300	80	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)			
			196						168	28		452	10010	196	SY	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC IP			
			698						312	386		452	12010	698	SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC IP			
		3,064							3,064			609	12000	3,064	FT	COMBINATION CURB AND GUTTER, TYPE 2			
		814						247	567			609	26000	814	FT	CURB, TYPE 6			
		2,270								2,270		609	26001	2,270	FT	CURB, TYPE 6, AS PER PLAN		4	
WATER WORK																			
	50											50	638	04800	50	FT	3/4" COPPER SERVICE BRANCH		
	50											50	638	04900	50	FT	1" COPPER SERVICE BRANCH		
		6										6	638	10800	6	EACH	VALVE BOX ADJUSTED TO GRADE		
		23										23	638	10900	23	EACH	SERVICE BOX ADJUSTED TO GRADE		
LIGHTING																			
							17					17	625	14500	17	EACH	LIGHT POLE FOUNDATION		
							3,332					3,332	625	25305	3,332	FT	CONDUIT, 1-1/2", 725.051, AS PER PLAN		74
							670					670	625	25907	670	FT	CONDUIT, JACKED OR DRILLED, 725.051, AS PER PLAN		74
							1,331					625	29000	1,331	FT	TRENCH			
							7					7	625	30610	7	EACH	PULL BOX, 725.07, SIZE 4		
							1,331					625	36010	1,331	FT	UNDERGROUND WARNING/MARKING TAPE			
TRAFFIC CONTROL																			
						513			513			630	08004	513	FT	ONE WAY SUPPORT, NO. 3 POST			
						320			320			630	80100	320	SF	SIGN, FLAT SHEET			
						2			2			630	84900	2	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL			
						14			14			630	85100	14	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION			
						6			6			630	97700	6	EACH	SIGNING, MISC.: SOLAR-POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY		59	
				0.01					0.01			644	00100	0.01	MILE	EDGE LINE, 4"			
				0.03					0.03			644	00200	0.03	MILE	LANE LINE, 4"			
				0.58					0.06		0.52	644	00300	0.58	MILE	CENTER LINE			
				200					66		134	644	00500	200	FT	STOP LINE			
				953					281		672	644	00600	953	FT	CROSSWALK LINE			
				500					16		484	644	00700	500	FT	TRANSVERSE/DIAGONAL LINE			
				4							4	644	01000	4	EACH	RAILROAD SYMBOL MARKING			
				1,170							1,170	644	01200	1,170	FT	PARKING LOT STALL MARKING			
				6					6			644	01300	6	EACH	LANE ARROW			
				329					329			644	01500	329	FT	DOTTED LINE, 4"			
				3							3	644	01600	3	EACH	HANDICAP SYMBOL MARKING			
				48					48			644	20800	48	FT	YIELD LINE			
TRAFFIC SIGNALS																			
									1			632	90100	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION		7	

GENERAL SUMMARY

LOR-57-8.52  
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SHEET NUM.					PART.				ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
8	75	76	77	78	01/MPO/OT	02/SAE/OT	03/S>2/OT	04/S>2/PV						
													LANDSCAPING	
		8			8				661	00500	8	CY	MULCH	
		51	58	51	160				661	14000	160	EACH	PERENNIALS, CALAMAGROSTIS ACUTIFLORA 'KARL FOERSTER' - REED GRASS	
		93	90	93	276				661	14000	276	EACH	PERENNIALS, IMPERATA CYLINDRICA 'RED BARON' - JAPANESE BLOOD GRASS	
		59	33	32	124				661	14000	124	EACH	PERENNIALS, NEPETA x FAASSENII 'WALKER'S LOW' - WALKER'S LOW CATMINT	
		80	305	260	645				661	14000	645	EACH	PERENNIALS, SEDUM ACRE 'AUREUM' - AUREUM GOLDEN STONECROP	
		1	4	3	31				661	40060	39	EACH	DECIDUOUS TREE, 1-1/2" CALIPER, GINKGO BILOBA 'PRINCETON SENTRY' - PRINCETON SENTRY GINKGO	
													MAINTENANCE OF TRAFFIC	
		50				10	18	22	410	12000	50	CY	TRAFFIC COMPACTED SURFACE, TYPE A OR B	
		10				2	4	4	614	13000	10	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
		10				2	4	4	616	10000	10	MGAL	WATER	
													INCIDENTALS	
								LS	100	00300	LS		PREMIUM ON RAILROADS' PROTECTIVE PUBLIC LIABILITY AND PROPERTY DAMAGE LIABILITY INSURANCE	
						0.19	0.35	0.33	0.13	614	11000	LS	MAINTAINING TRAFFIC	
						0.19	0.35	0.33	0.13	623	10000	LS	CONSTRUCTION LAYOUT STAKES AND SURVEYING	
						0.19	0.35	0.33	0.13	624	10000	LS	MOBILIZATION	
								LS	SPECIAL	69021000	LS		PRECONSTRUCTION VIDEO	

CALCULATED	<b>GENERAL SUMMARY</b>
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JTY	11A
LOR-57-8.52	89
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**DRAINAGE (D) & SANITARY (SN)**

REF. NO.	SHEET NO.	STATION		SIDE	202					611										
					PIPE REMOVED	CATCH BASIN OR INLET REMOVED	4" CONDUIT, TYPE B	6" CONDUIT, TYPE B	8" CONDUIT, TYPE B	12" CONDUIT, TYPE B	12" CONDUIT, TYPE C	15" CONDUIT, TYPE B	24" CONDUIT, TYPE B	CATCH BASIN, NO. 3A	CATCH BASIN, NO. 6	CATCH BASIN, NO. 2-2B	CATCH BASIN, NO. 2-3	CATCH BASIN ADJUSTED TO GRADE	CATCH BASIN ADJUSTED TO GRADE, AS PER PLAN	MANHOLE ADJUSTED TO GRADE
					FT	EACH	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH
		FROM	TO / AT																	
D1	18	449+79	449+85	LT	17	1					15				1					
D2	18		452+26	RT														1		
D3	18		452+68	RT														1		
D4	18		452+69	LT															1	
D5	18		452+70	LT														1		
D1	19	454+20	455+25	LT					104						1					
D2	19		455+18	RT														1		
D3	19		455+25	LT														1		
D4	19		456+07	RT														1		
D5	19		457+48	RT		1				15		5	1							
D1	20		458+25	LT	15	1			15					1						
D2	20		458+33	RT	21	1	10	10	5						1					
SN1	20		460+44	RT															1	
SN2	20		460+59	RT															1	
D1	21		463+83	RT															1	
D2	21		463+85	LT	3	1			10											
D3	21		464+56	LT	10	1				10				1						
D4	21		464+50	RT															1	
D5	21	464+50	464+82	RT						60				1						
D6	21	464+56	464+95	LT					42						1					
D7	21		465+53	RT															1	
D8	21		465+53	LT		1														
D9	21	466+81	467+80	LT		1									1					
D10	21		467+80	LT		1	10			96				1						
D11	21		467+83	RT						5									1	
D1	22	469+08	469+22	LT	17	1						16							1	
D2	22		469+15	LT															1	
D3	22	469+22	469+45	LT								29		1		1				
D4	22	469+45	469+86	LT								50		1						
D5	22	469+86	470+75	LT		1						95			1					
D6	22		470+75	RT																
D1	22-23	470+75	472+15	LT		1				140	12					1				
D2	23	472+15	472+75	LT							48					1				
D3	23	472+75	473+70	LT							95									
D4	23	473+70	473+80	LT							15									
D5	23	473+80	473+80	LT & RT										1						
D6	23	473+80	473+90	RT					28					1						
SN1	23		475+50	RT															1	
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>					<b>83</b>	<b>12</b>	<b>10</b>	<b>20</b>	<b>176</b>	<b>369</b>	<b>187</b>	<b>190</b>	<b>5</b>	<b>10</b>	<b>6</b>	<b>4</b>	<b>1</b>	<b>6</b>	<b>5</b>	<b>6</b>

CALCULATED  
HAC  
CHECKED  
JTY

**SUBSUMMARIES**

**LOR-57-8.52**  
**ENVISION PHASE 1**



WALKS (W) - TABLE 1

REF. NO.	SHEET NO.	STATION		SIDE	202			608		
					PAVEMENT REMOVED	WALK REMOVED		4" CONCRETE WALK		CURB RAMP
		SY	SF		SF		SF			
		01/MPO	01/MPO		02/SAE	01/MPO	02/SAE	02/SAE		
		FROM	TO / AT							
W1	18	449+08	449+53	LT						
W2	18	449+14	449+44	RT			281		138	147
W3	18	449+79	450+51	RT			76		42	64
W4	18	449+88	450+29	LT			547		417	152
W5	18	450+29	450+84	LT			373		288	150
	18	450+51	453+00	RT		357		378		
W6	18	450+75	451+38	RT		1419		434		
	18	450+84	451+08	LT		257				
W7	18	451+08	451+50	LT			462	467		
W8	18	451+50	451+97	RT				314		
W9	18	452+07	452+18	RT				61		
W10	18	452+33	453+00	RT				464		
W11	18	452+36	453+00	LT		965		980		
	19	453+00	453+49	RT		322				
W1	19	453+00	453+16	RT				103		
W2	19	453+00	457+58	LT		5935		5919		130
W3	19	453+41	453+99	LT				44		
W4	19	453+68	454+16	LT				169		185
	19	453+99	456+14	RT		1403				
W5	19	453+99	454+15	RT						118
W6	19	454+39	454+47	RT				35		
W7	19	454+59	456+01	RT				874		
W8	19	456+11	456+14	RT				12		
W9	19	456+79	456+95	RT				99		
W10	19	457+25	457+50	RT	11	54		166		
	19	457+50	457+62	RT		83				
W11	19	457+62	458+00	RT		258		191		
	19 & 20	457+94	459+91	LT			3020			
W1	19 & 20	457+94	459+31	LT				1703		162
	20	458+00	460+11	RT			1326			
W2	20	458+00	458+19	RT				68		67
W3	20	458+45	458+85	RT				203		
W4	20	458+95	459+16	RT				103		
W5	20	459+28	460+19	RT				391		128
W6	20	459+48	459+91	LT				524		75
W7	20	460+47	460+93	RT	24			156		72
W8	20	461+05	461+35	RT	22			146		
<b>SUBTOTALS TO TABLE 2</b>					57	11053	6085	14004	885	1450

WALKS (W) - TABLE 2

REF. NO.	SHEET NO.	STATION		SIDE	202			608		
					PAVEMENT REMOVED	WALK REMOVED		4" CONCRETE WALK		CURB RAMP
		SY	SF		SF		SF			
		01/MPO	01/MPO		02/SAE	01/MPO	02/SAE	02/SAE		
		FROM	TO / AT							
W1	21	463+29	463+90	RT						
W2	21	463+30	464+20	LT					283	91
	21	463+37	467+08	RT	583				420	82
	21	463+76	466+00	LT	394					
W3	21	464+10	466+46	RT					1251	61
W4	21	464+50	465+23	LT					365	
W5	21	465+53	466+66	LT				271	544	75
	21	466+66	466+77	LT				43		
W6	21	466+70	466+87	RT					87	
W7	21	466+77	466+87	LT					36	48
W8	21	466+99	467+67	LT				264	340	
W9	21	467+02	467+46	RT					216	
W10	21	467+61	468+00	RT					198	
	21	467+67	467+78	LT				41		
W11	21	467+78	467+85	LT				27	35	
	21	467+85	467+94	LT				35		
W12	21	467+94	468+00	LT				26	33	
	22	468+00	469+05	LT				407	528	
W2	22	468+00	468+55	RT					277	
	22	468+55	468+70	RT				69		
W3	22	468+70	468+80	RT				50	50	
	22	468+80	468+94	RT				72		
W4	22	468+94	470+72	RT				778	791	
W5	22	469+14	469+40	LT					102	66
	22 & 23	469+88	472+29	LT	259					
W6	22	469+93	470+86	LT					150	82
W7	22	470+94	472+00	RT					530	
W8	22	471+10	472+00	LT					666	
	23	472+00	474+47	RT					1218	62
W2	23	472+00	473+86	LT					834	
W3	23	474+10	474+33	LT					83	62
W4	23	475+43	475+56	RT				159	68	
W5	23	475+48	475+63	RT				58	52	70
	24	479+85	479+93	RT				26		72
W2	24	479+85	479+93	LT						61
	47	54+11	55+02	RT					453	
	47	54+37	55+31	RT	140					
	47	54+44	56+04	LT	165					
W2	47	55+28	56+11	RT					475	
	56			LT					21	58
W2	56			RT					243	114
W3	56			RT						64
SUBTOTALS FROM TABLE 2					1542	0	2362	0	10361	1020
SUBTOTALS FROM TABLE 1					57	11053	6085	14004	885	1450
<b>TOTALS FOR SPLITS</b>					<b>1598</b>	<b>11053</b>	<b>8447</b>	<b>14004</b>	<b>11246</b>	<b>2470</b>
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>					<b>1598</b>	<b>19500</b>		<b>25250</b>		<b>2470</b>

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**SUBSUMMARIES**

**LOR-57-8.52**  
**ENVISION PHASE 1**

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**SEEDING ITEM CALCULATIONS (CARRIED TO GENERAL SUMMARY)**

TOPSOIL:	3191 SY x 111 CY/1000SY	= 354 CU YD
REPAIR SEEDING AND MULCHING:	3191 SY x 5%	= 160 SY
INTER-SEEDING:	3191 SY x 5%	= 160 SY
COMMERCIAL FERTILIZER:	3191 SY x 1 TON / 7410 SY	= 0.43 TONS
(Inter-Seeding)	160 SY x 1 TON / 4940 SY	= 0.03 TONS
	<b>TOTAL</b>	<b>= 0.46 TONS</b>
WATER:	3191 SY x 0.0027 M. GAL/SY x 2 APP.	= 17 M. GAL.
(Inter-Seeding)	160 SY x 0.0027 M. GAL/SY x 2 APP.	= 1 M. GAL.
	<b>TOTAL</b>	<b>= 18 M. GAL.</b>

**EARTHWORK AND SEEDING**

SHEET NO.	STATION		203	203	659
	FROM	TO	EXCAVATION	EMBANKMENT	SEEDING AND MULCHING
			CU YD	CU YD	SQ YD
			03/S>2	03/S>2	03/S>2
N MAIN ST (SR-57)					
25	449+00.00	450+50.00	21	20	329
26	450+63.00	451+50.00	0	44	0
27	452+00.00	453+00.00	0	0	0
28	453+28.50	454+27.00	1	46	47
29	454+52.50	456+00.00	0	0	0
30	456+06.00	457+10.00	0	0	0
31	457+50.00	458+31.50	23	52	94
32	458+50.00	459+21.50	25	37	89
33	459+39.00	460+17.00	40	77	192
34	460+50.00	461+50.00	25	65	0
35	463+00.00	464+00.00	22	54	108
36	464+50.00	465+50.00	74	31	189
37	465+78.00	466+71.90	36	29	203
38	466+91.80	467+53.00	37	46	228
39	467+71.90	468+50.00	31	54	211
40	468+62.29	469+07.00	15	26	108
41	469+50.00	470+83.20	31	28	158
42	470+97.50	472+00.00	15	44	186
43	472+50.00	474+00.00	23	118	383
44	474+68.20	475+00.00	8	9	138
45	475+50.00	477+00.00	13	15	188
46	477+41.00	478+30.00	6	1	44
	SUBTOTAL N MAIN ST (SR 57)		446	796	2895
PARSONS RD					
48	52+50.00	53+93.00	1	1	9
49	54+00.00	55+00.00	16	72	189
50	55+16.00	56+25.00	141	18	98
	SUBTOTAL PARSONS RD		158	91	296
<b>TOTALS TO GENERAL SUMMARY</b>			<b>604</b>	<b>887</b>	<b>3191</b>

CALCULATED  
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**SUBSUMMARIES**

**LOR-57-8.52  
ENVISION PHASE 1**

**PAVEMENT**

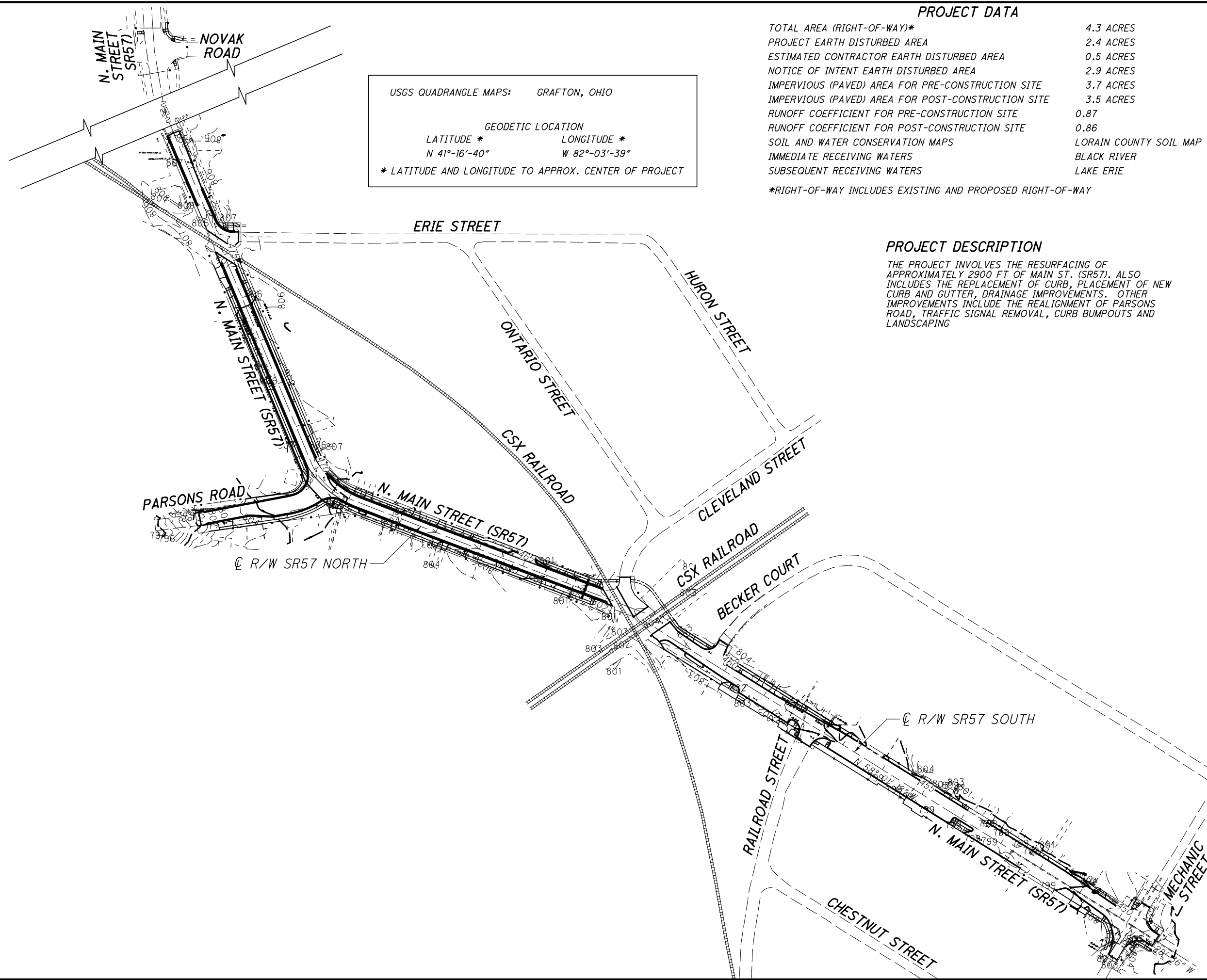
SHEET NO.	STATION		SIDE	AREA DESCRIPTION	CADD AREA	202		204	254	301	304	407		441				
	FROM	TO / AT				SF	PAVEMENT REMOVED		SUBGRADE COMPACTION	PAVEMENT PLANING	ASPHALT CONCRETE BASE, PG64-22	AGGREGATE BASE	NON-TRACKING TACK COAT		ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22		ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448)	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)
							01/MPO	02/SAE					02/SAE	04/S>2	02/SAE	02/SAE		
18	449+08	453+00	LT & RT	SURFACE COURSE	18,298								16		85			
18	449+08	453+00	LT & RT	PLANING AREA	16,756				1,862				168					
18	449+08	451+50	LT & RT	WIDENING	2,629		292											
18	451+50	453+00	LT & RT	WIDENING	296	33												
19	453+00	458+00	LT & RT	SURFACE COURSE	22,228	291							9		103			
19	453+00	458+00	LT & RT	PLANING AREA	21,226				2,358				212					
20	458+00	461+99	LT & RT	SURFACE COURSE	12,936	626							8		60			
20	458+00	461+99	LT & RT	PLANING AREA	12,211				1,357				122					
20	462+17	462+95	LT & RT	SURFACE COURSE	2,418				269				24		11			
20-21	462+90	468+00	LT & RT	SURFACE COURSE	11,853										55			
20-21	462+90	468+00	LT & RT	PLANING AREA	9,901				1,100				99					
21	463+03	468+00	LT & RT	C&G FULL DEPTH	2,419		200	491		45	91	16	16				13	
22	468+00	472+00	LT & RT	SURFACE COURSE	9,524										44			
22	468+00	472+00	LT & RT	PLANING AREA	8,156				906				82					
22	468+00	472+00	LT & RT	C&G FULL DEPTH	1,368		226	246		25	46	9	9				7	
22-23	470+75	473+80	LT & RT	LEVELING COURSE	-										30			
23	472+00	475+12	LT & RT	SURFACE COURSE	7,095										33			
23	472+00	475+12	LT & RT	PLANING AREA	5,995				666				60					
23	472+00	474+86	LT & RT	C&G FULL DEPTH	1,100		189	273		20	51	7	7				6	
23-24	475+08	477+83	LT & RT	SURFACE COURSE	7,008										32			
23-24	475+08	477+83	LT & RT	PLANING AREA	6,426				714				64					
23-24	475+35	477+83	LT & RT	C&G FULL DEPTH	578		125	144		11	27	4	4				3	
47	53+43	56+20	LT&RT	FULL DEPTH	9,398		1,211	1,198		174	207	125		36			51	
<b>TOTALS FOR SPLITS</b>						<b>950</b>	<b>2,243</b>	<b>2,352</b>	<b>9,232</b>	<b>275</b>	<b>422</b>	<b>161</b>	<b>900</b>	<b>36</b>	<b>423</b>	<b>30</b>	<b>80</b>	
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>						<b>3,193</b>	<b>2,352</b>	<b>9,232</b>	<b>275</b>	<b>422</b>	<b>1,061</b>	<b>459</b>	<b>30</b>	<b>80</b>				

CALCULATED  
HAC  
CHECKED  
JTY

**SUBSUMMARIES**

**LOR-57-8.52**  
**ENVISION PHASE 1**

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USGS QUADRANGLE MAPS: GRAFTON, OHIO

GEODETIC LOCATION  
 LATITUDE \* N 41°-16'-40"  
 LONGITUDE \* W 82°-03'-39"  
 \* LATITUDE AND LONGITUDE TO APPROX. CENTER OF PROJECT

### PROJECT DATA

TOTAL AREA (RIGHT-OF-WAY)*	4.3 ACRES
PROJECT EARTH DISTURBED AREA	2.4 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA	0.5 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA	2.9 ACRES
IMPERVIOUS (PAVED) AREA FOR PRE-CONSTRUCTION SITE	3.7 ACRES
IMPERVIOUS (PAVED) AREA FOR POST-CONSTRUCTION SITE	3.5 ACRES
RUNOFF COEFFICIENT FOR PRE-CONSTRUCTION SITE	0.87
RUNOFF COEFFICIENT FOR POST-CONSTRUCTION SITE	0.86
SOIL AND WATER CONSERVATION MAPS	LORAIN COUNTY SOIL MAP
IMMEDIATE RECEIVING WATERS	BLACK RIVER
SUBSEQUENT RECEIVING WATERS	LAKE ERIE

\*RIGHT-OF-WAY INCLUDES EXISTING AND PROPOSED RIGHT-OF-WAY

### PROJECT DESCRIPTION

THE PROJECT INVOLVES THE RESURFACING OF APPROXIMATELY 2900 FT OF MAIN ST. (SR57). ALSO INCLUDES THE REPLACEMENT OF CURB, PLACEMENT OF NEW CURB AND GUTTER, DRAINAGE IMPROVEMENTS. OTHER IMPROVEMENTS INCLUDE THE REALIGNMENT OF PARSONS ROAD, TRAFFIC SIGNAL REMOVAL, CURB BUMPOUTS AND LANDSCAPING



CALCULATED  
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## PROJECT SITE PLAN

LOR-57-8.52  
 ENVISION PHASE 1

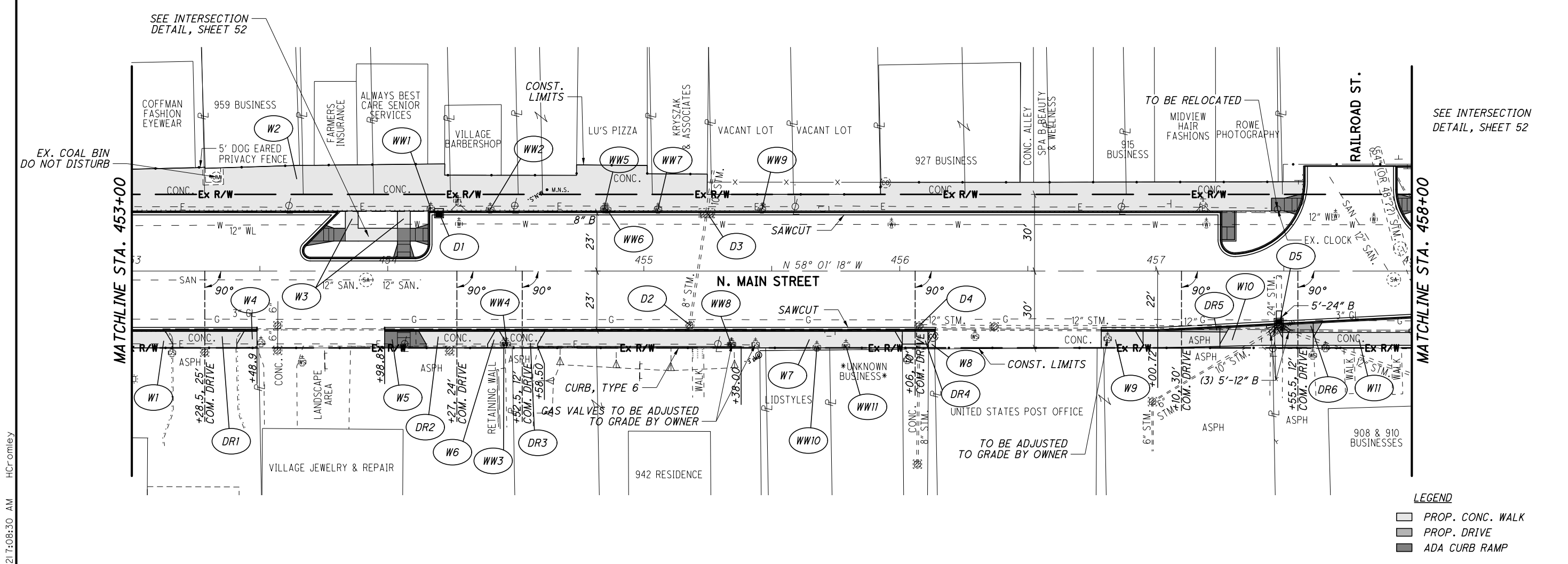




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PLAN AND PROFILE - N. MAIN ST. (SR-57)  
STA. 453+00 TO STA. 458+00

LOR-57-8.52  
ENVISION PHASE 1



- LEGEND**
- PROP. CONC. WALK
  - PROP. DRIVE
  - ADA CURB RAMP

EXISTING PROFILE ALONG CONST.	799.32	799.32	799.35	799.41	799.43	799.43	799.46	799.48	799.52	799.52	799.57	799.57	799.60	799.65	799.67	799.81	799.92	800.05	800.18	800.38	800.61	EXISTING PROFILE ALONG CONST.					
	453			454					455				456				457				458						
		STA. 453+56.9, 31.0' RT. EX. CB (KT206) T/GRATE=799.50 6" SPP NE=798.15 6" SPP SW=798.13 6" SPP NW=798.17		STA. 453+91.5, 3.4' RT. EX. SAN MH (KT278) T/RIM=799.46 12" TILE SE=791.39 12" TILE NW=791.36		STA. 454+20.0, 23.0' LT. PROP CB-3A T/GRATE=798.70 8" W=796.02		STA. 454+24.1, 31.2' RT. EX. CB (KT231) T/GRATE=799.66 6" SPP NE=798.36 6" SPP NW=798.46 6" SPP SW=978.31 6" SPP SE=798.33		STA. 455+18.0, 21.2' RT. RECONSTRUCT TO GRADE EX. CB (KT273) T/GRATE=799.06 8" SPP SW=797.26		STA. 455+24.6, 23.0' LT. ADJUST TO GRADE EX. CB (KT389) T/GRATE=799.07 12" CPP SE=796.45 8" SPP NE=795.53 10" CPP SW=795.48 PROP. 8" E=795.50		STA. 456+07, 21.4' RT. ADJUST TO GRADE EX. CB (KT383) T/GRATE=799.29 8" SPP NE=796.71 12" CPP NW=796.61		STA. 456+36.9, 21.7' RT. EX. CB (KT389) T/GRATE=799.07 12" CPP SE=796.45 8" SPP NE=795.53 10" CPP SW=795.48 PROP. 8" E=795.50		STA. 456+98.7, 51.0' RT. EX. CB (KT392) T/GRATE=800.04 6" PVC N&SW=796.34		STA. 457+48.0, 20.5' RT. PROP CB-3A T/GRATE=799.75 24" SW=796.80 12" SE=796.29 12" E=796.36 12" NW=796.03		STA. 457+48.1, 21.8' RT. EX. CB (KT394) T/GRATE=799.73 24" TILE SW=795.80 12" CPP SE=796.29 10" TILE E=796.36 12" TILE NW=796.03		STA. 457+92.9, 3.3' RT. EX. SAN MH (KT402) T/RIM=800.44 12" TILE S=790.50 18" STL SW=791.50 12" TILE NW=790.44		STA. 457+95.5, 8.8' LT. EX. STM MH (KT405) T/RIM=800.29 54" PCO S=784.15 54" PCO N=784.11 18" STL NE=790.49 24" CPP N=791.93	

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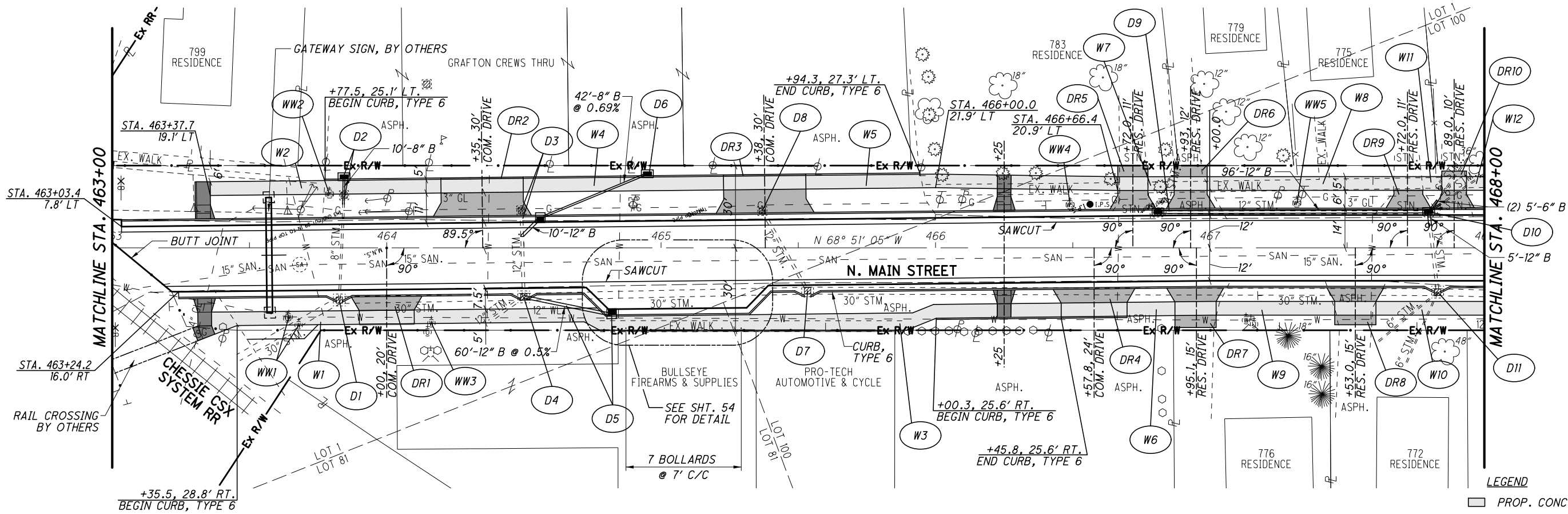






PLAN AND PROFILE - N. MAIN ST. (SR-57)  
 STA. 463+00 TO STA. 468+00

LOR-57-8.52  
 ENVISION PHASE 1

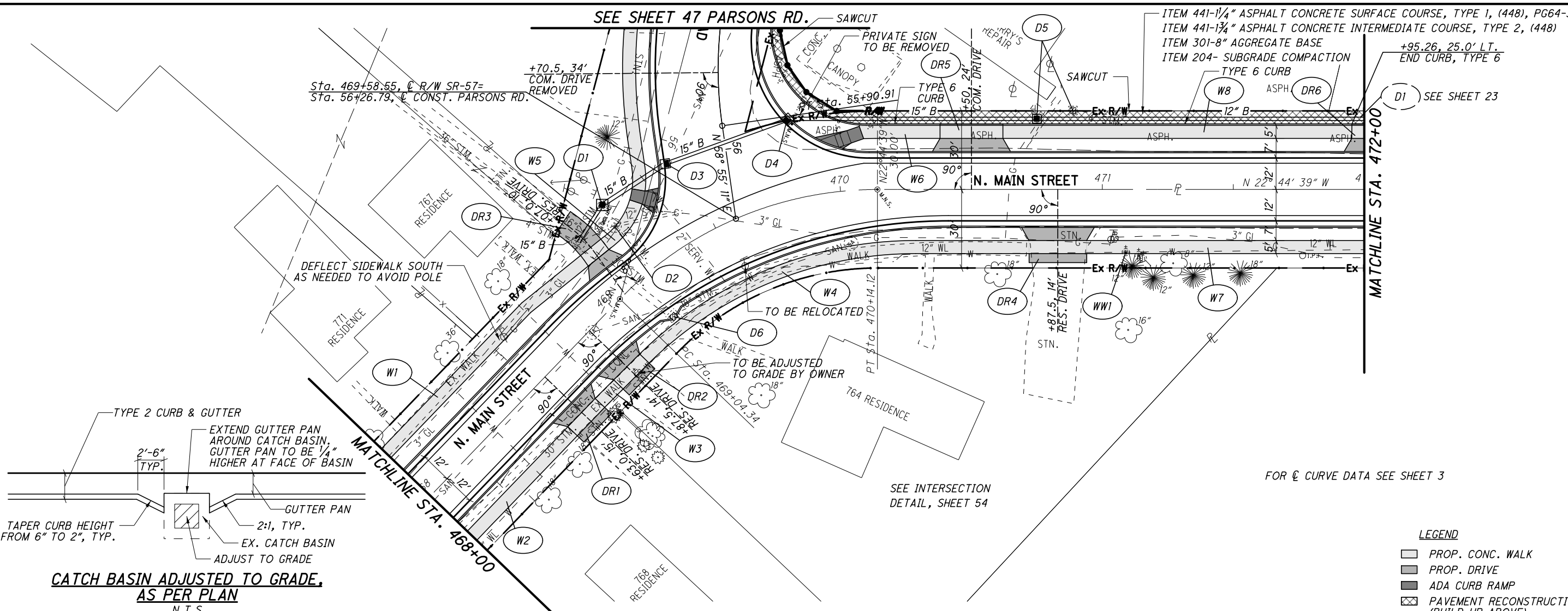


- LEGEND**
- PROP. CONC. WALK
  - PROP. DRIVE
  - ADA CURB RAMP

815	STA. 463+82.7, 19.0' RT. EX. CB (KT1357) T/GRATE=801.36 E 8" SPP SW=796.99 E 30" PCO NW=791.19 E 30" SPP E=791.14 ADJUST TO GRADE, AS PER PLAN	STA. 463+84.5, 25.9' LT. PROP. CB NO. 6 T/GRATE=801.01 E 8" NE=797.46	STA. 464+49.9, 17.8' RT. EX. CB (KT1355) T/GRATE=800.61 E 12" CPP SW=796.61 E 30" PCO SE=790.91 E 12" CPP NE=796.56 E 30" PCO NW=790.96 E 12" NW=797.84 ADJUST TO GRADE, AS PER PLAN	STA. 466+81.1, 13.0' LT. PROP. CB NO. 6 T/GRATE=802.32 E 12" NW=799.54 E 4" SW=800.40	STA. 467+79.7, 13.0' LT. PROP. CB NO. 6 T/GRATE=803.58 E 12" CPP SE=799.58 E 6" SPP SW=800.38 E 6" SPP SW=800.23 E 12" CPP NE=799.53	815	
810	STA. 463+68.3, 6.1' RT. EX. SAN MH (KT1293) T/RIM=801.91 E 10" SPP NE=789.54 E 15" TILE NW=789.24 E 15" TILE SE=789.21	STA. 463+84.5, 19.2' LT. EX. CB (KT1273) T/GRATE=800.29 E 8" SPP NE=797.39 TO BE REMOVED	STA. 464+56.0, 11.0' LT. PROP. CB-3A T/GRATE=801.06 E 12" NE=797.50 E 8" SW=798.50	STA. 465+53.4, 15.6' RT. EX. CB (KT1352) T/GRATE=801.25 E 12" CPP S=798.35 E 30" PCO SE=790.97 E 30" PCO NW=790.92	STA. 467+79.7, 13.0' LT. EX. CB (KT1497) T/GRATE=803.73 E 12" CPP SE=799.58 E 6" SPP SW=800.38 E 6" SPP SW=800.23 E 12" CPP NE=799.55 TO BE REMOVED	810	
805		STA. 464+49.1, 13.7' LT. EX. CB (KT1297) T/GRATE=800.83 E 12" CPP NE=797.60 TO BE REMOVED	STA. 464+82.0, 24.3' RT. PROP. CB-3A T/GRATE=800.65 E 12" SE=798.00	STA. 466+81.1, 12.9' LT. EX. CB (KT1529) T/GRATE=802.2600 E 12" CPP NW=800.46 E 4" SPP SW=800.41 TO BE REMOVED	STA. 467+83.0, 16.1' RT. EX. CB (KT1460) T/GRATE=802.9820 E 12" CPP SW=-3.93 E 30" PCO NW=-12.22 E 30" PCO SE=-12.18 E 6" SPP NE=-5.30 E 6" SPP NE=-5.50 ADJUST TO GRADE, AS PER PLAN	805	
800				EXISTING PROFILE @ E R/W & CONST.		800	
795						795	
790						790	
785			STA. 464+95.0, 27.0' LT. PROP. CB NO. 6 T/GRATE=801.41 E 12" NE=798.79	STA. 465+36.9, 13.5' LT. EX. CB (KT1307) T/GRATE=800.72 E 12" CPP N=799.39 TO BE REMOVED		785	
EXISTING PROFILE ALONG C. CONST.	463	464	465	466	467	468	EXISTING PROFILE ALONG C. CONST.

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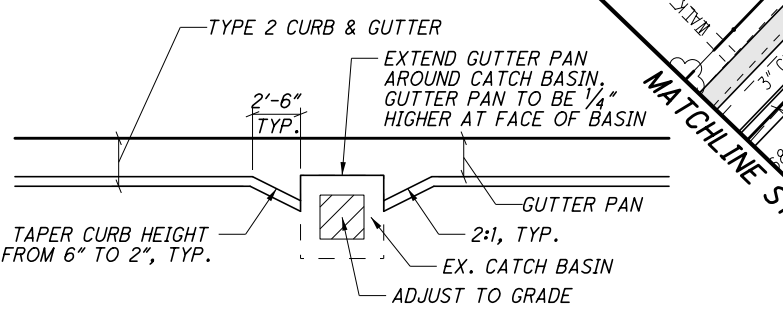
SEE SHEET 47 PARSONS RD.

Sta. 469+58.55, C R/W SR-57=  
Sta. 56+26.79, C CONST. PARSONS RD.

- ITEM 441-1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-32
- ITEM 441-1 1/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)
- ITEM 301-8" AGGREGATE BASE
- ITEM 204- SUBGRADE COMPACTION

+95.26, 25.0' LT. END CURB, TYPE 6

CALCULATED  
HAC  
CHECKED  
JTY



**CATCH BASIN ADJUSTED TO GRADE,  
AS PER PLAN**

N.T.S.

FOR C CURVE DATA SEE SHEET 3

SEE INTERSECTION  
DETAIL, SHEET 54

LEGEND

- PROP. CONC. WALK
- PROP. DRIVE
- ADA CURB RAMP
- PAVEMENT RECONSTRUCTION (BUILD-UP ABOVE)

EXISTING PROFILE ALONG C CONST.	468	469	470	471	472	EXISTING PROFILE ALONG C CONST.
804.29						804.29
804.51						804.51
804.72						804.72
804.85						804.85
804.98						804.98
805.08						805.08
805.33						805.33
805.71						805.71
806.13						806.13
806.43						806.43
806.66						806.66
806.75						806.75
806.72						806.72
806.71						806.71
806.72						806.72
806.75						806.75
806.79						806.79
806.75						806.75
806.79						806.79
806.75						806.75
806.79						806.79
806.75						806.75
806.79						806.79
806.75						806.75
806.79						806.79
806.75						806.75
806.79						806.79

STA. 469+15.3, 19.1' RT.  
EX. CB (KT1591)  
T/GRATE=804.1790  
F 6" SPP SE=-5.73  
F 30" PCO SE=-13.73  
F 30" PCO S=-13.63  
F 18" CPP NW=12.70

ADJUST TO GRADE,  
AS PER PLAN

STA. 469+20.5, 22.1' LT.  
EX. STM MH (KT1822)  
T/RIM=804.97  
F 12" CPP NE=801.74  
F 12" CPP NW=801.62  
F 4" SPP SE=803.32

STA. 469+21.7, 31.1' LT.  
EX. CB (KT1824)  
T/GRATE=804.46  
F 12" CPP E=801.74  
REPLACE W/ CB 2-3  
F 15" NW=800.35  
F 15" E=799.25

ADJUST TO GRADE  
STA. 469+08.3, 26.5' LT.  
EX. STM MH (KT1817)  
T/RIM=805.11  
F 30" PCO N=790.21  
F 4" SPP S=803.33  
F 36" CPP S=789.96  
PLUG F 12" CPP W=801.06  
PROP. 15" W=799.00

STA. 468+87.9, 1.3' RT.  
EX. SAN MH (KT1484)  
T/GRATE=804.91  
F 12" NE=795.0  
F 12" E&W=788.1

16'-15" B @ 1.56%  
29'-15" B @ 0.50%

ADJUST TO GRADE  
STA. 469+44.8, 30.9' LT.  
PROP. CB-3A  
T/GRATE=804.84  
F 15" NW&SE=800.50

150'-15" B @ 0.50%

STA. 469+86.1, 30.5' LT.  
PROP. CB-3A  
T/GRATE=805.13  
F 15" SE&NW=800.75

EXISTING PROFILE @ C R/W & CONST.

95'-15" B @ 0.30%

STA. 470+75.0 (START) ELEV.=806.75  
PROFILE GRADE ADJUSTMENT

140.00' @ +0.40%

TO BE REMOVED  
STA. 470+88.7, 30.2' LT.  
EX. CB (KT1759)  
T/GRATE=806.1960  
F 4" SPP N=-2.00

PROP. PROFILE

140'-12" B @ 0.50%

STA. 470+75.0, 27.0' LT.  
PROP. CB 2-2B  
T/GRATE=806.20  
F 15" SE=801.03  
F 12" N=801.28

3" GL  
12" WL

**PLAN AND PROFILE - N. MAIN ST. (SR-57)  
STA. 468+00 TO STA. 472+00**

**LOR-57-8.52  
ENVISION PHASE 1**

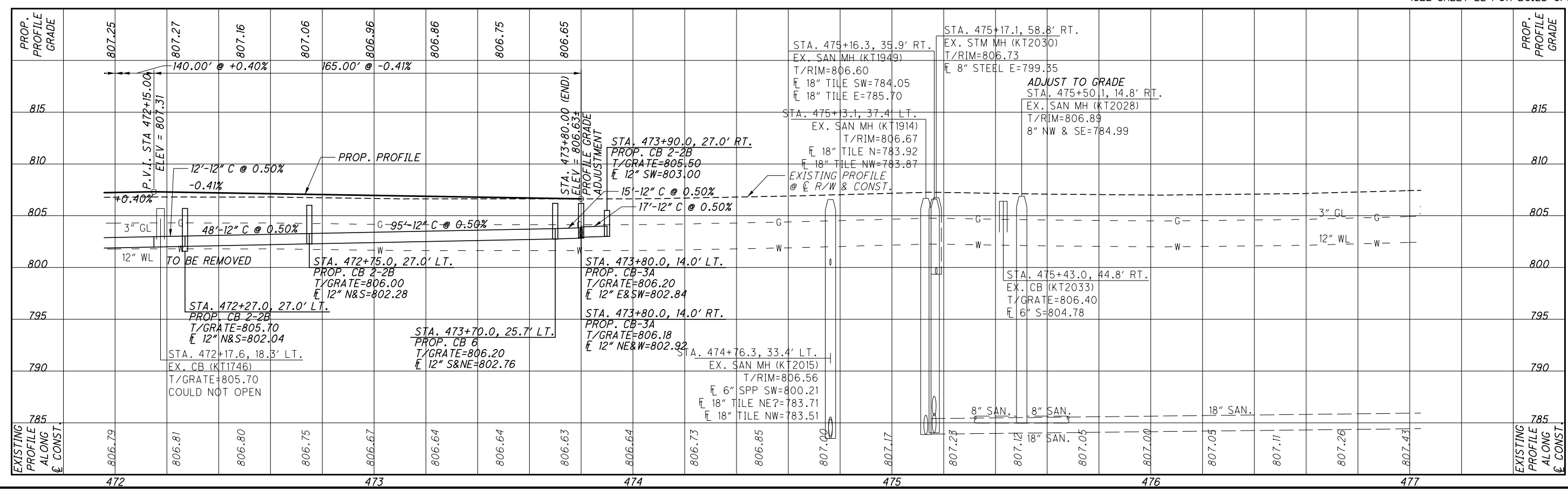
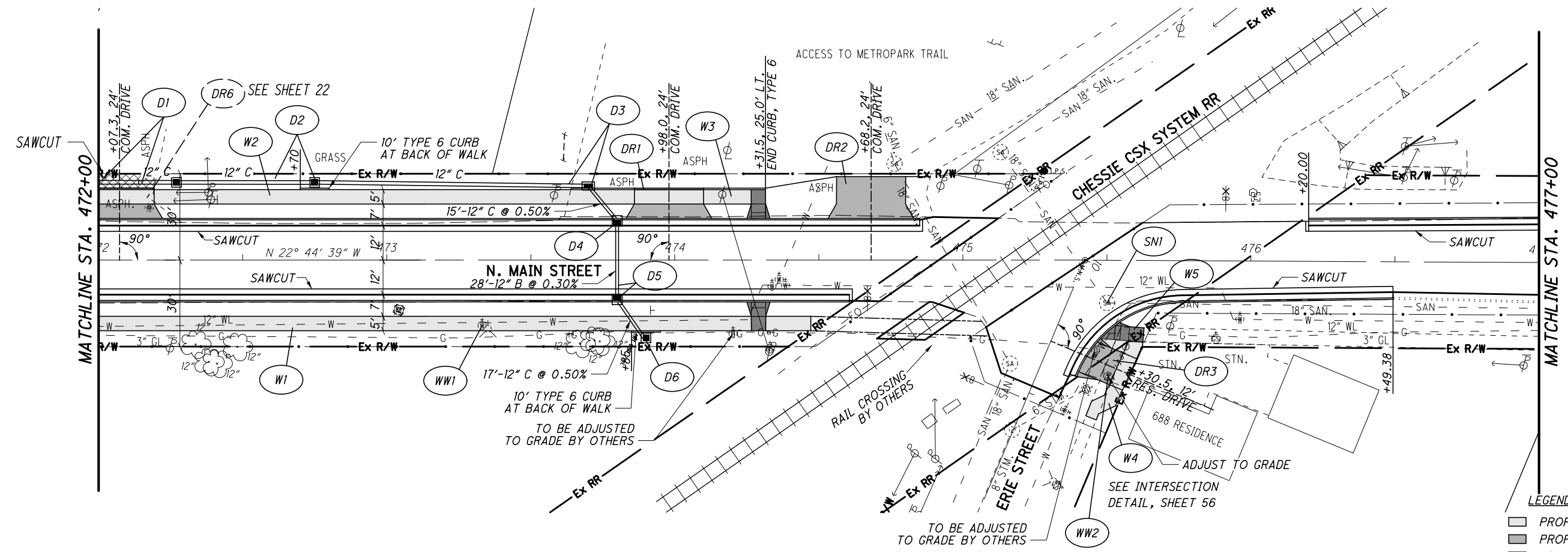


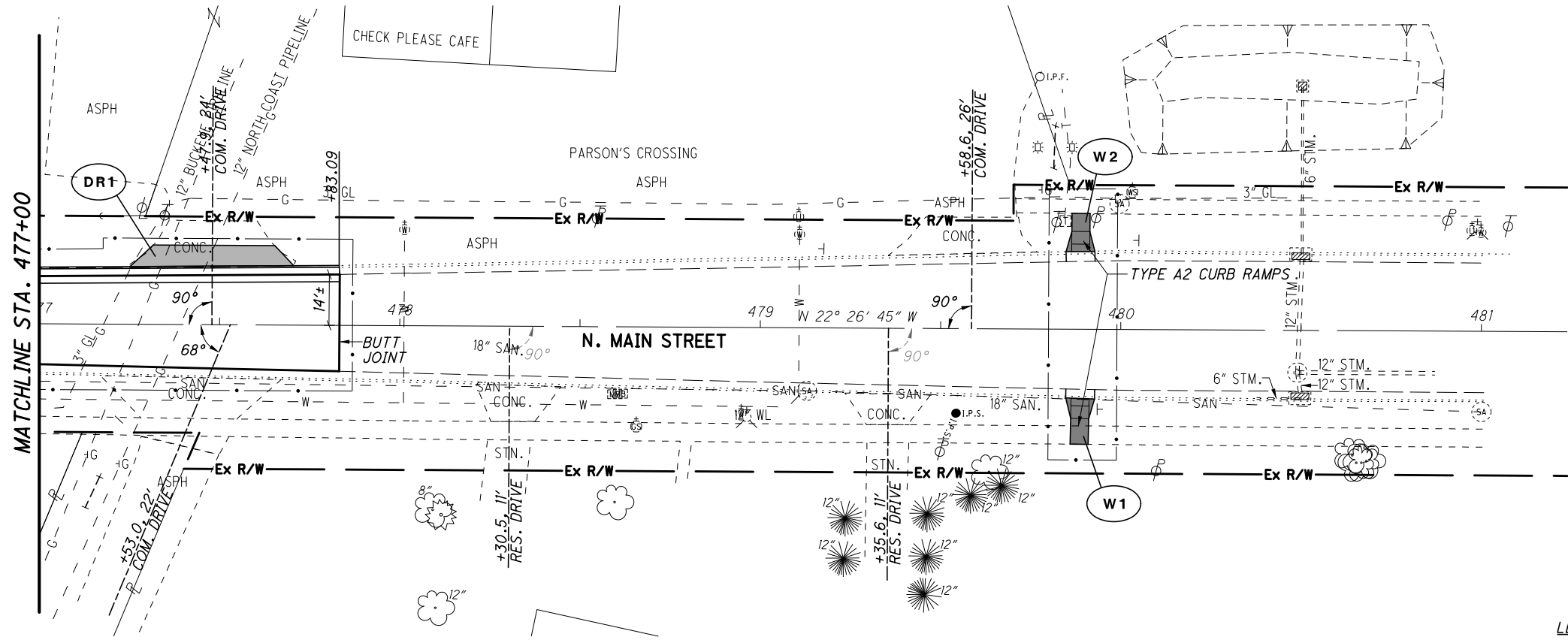
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PLAN AND PROFILE - N. MAIN ST. (SR-57)  
STA. 472+00 TO STA. 477+00

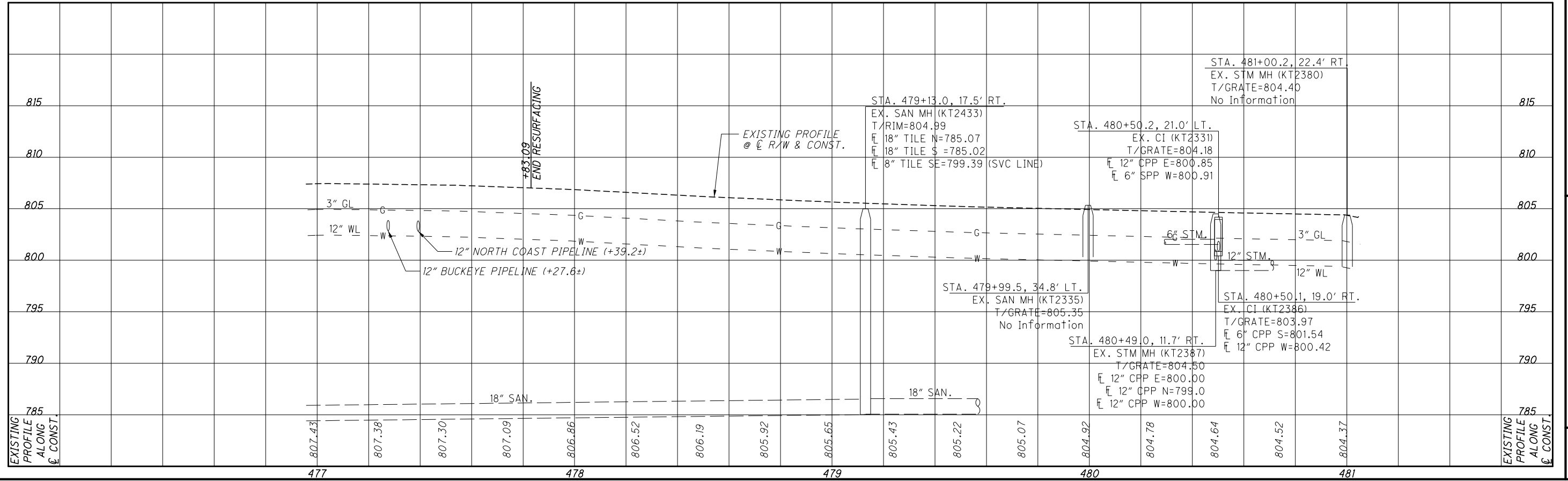
LOR-57-8.52  
ENVISION PHASE 1

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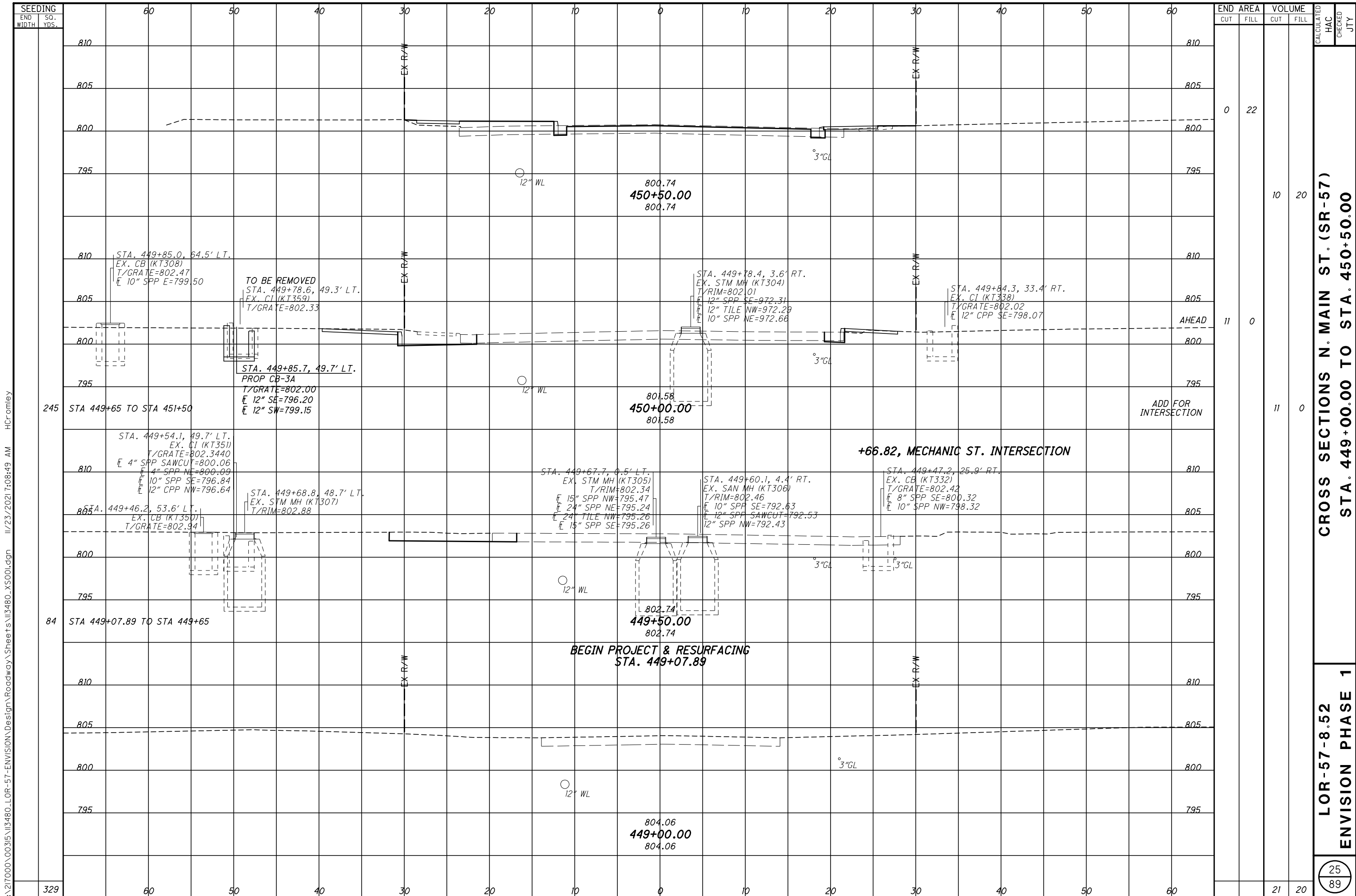
- LEGEND**
- PROP. CONC. WALK
  - PROP. DRIVE
  - ADA CURB RAMP



CALCULATED  
HAC  
CHECKED  
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**PLAN AND PROFILE - N. MAIN ST. (SR-57)  
STA. 477+00 TO STA. 481+00**

**LOR-57-8.52  
ENVISION PHASE 1**

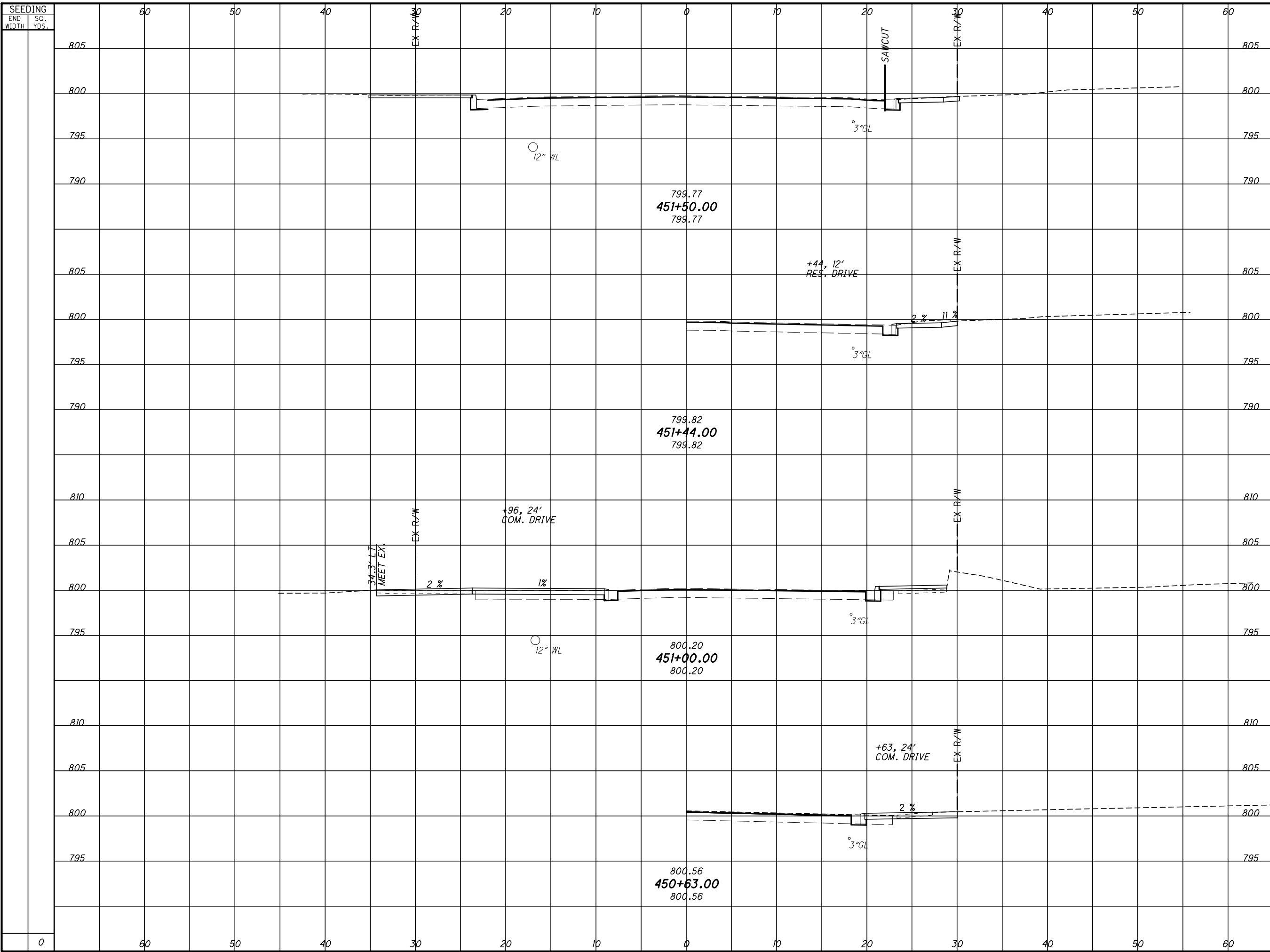


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**CROSS SECTIONS N. MAIN ST. (SR-57)  
STA. 449+00.00 TO STA. 450+50.00**

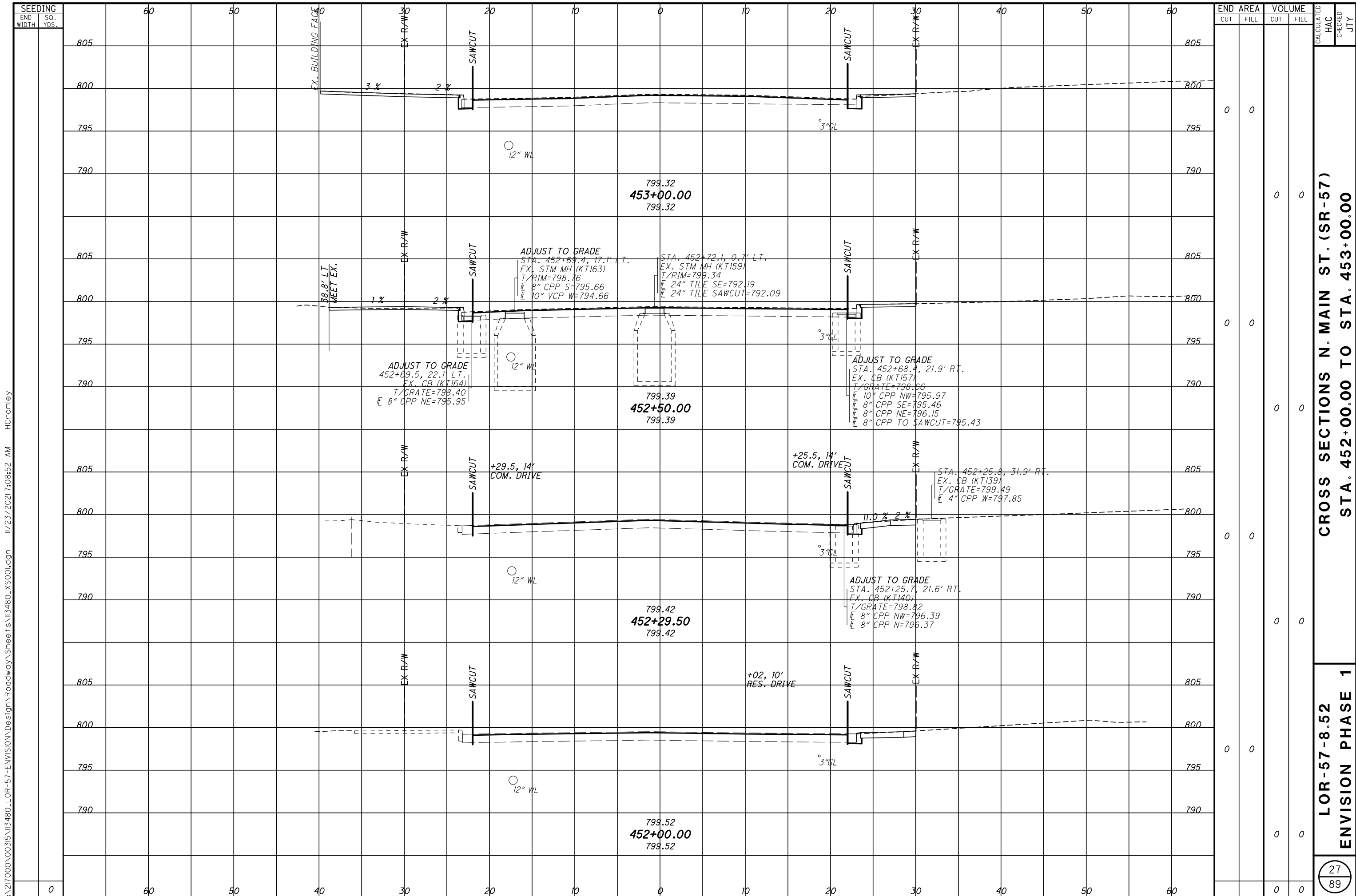
**LOR-57-8.52  
ENVISION PHASE 1**

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END	AREA		VOLUME	
	CUT	FILL	CUT	FILL
805	0	0	0	0
800	0	0	0	12
795	0	0	0	0
790	0	0	0	0
805	0	0	0	0
800	0	13	0	0
795	0	0	0	32
810	0	0	0	0
805	0	0	0	0
800	0	0	0	0
795	0	0	0	44

**CROSS SECTIONS N. MAIN ST. (SR-57)**  
**STA. 450+63.00 TO STA. 451+50.00**  
**LOR-57-8.52**  
**ENVISION PHASE 1**



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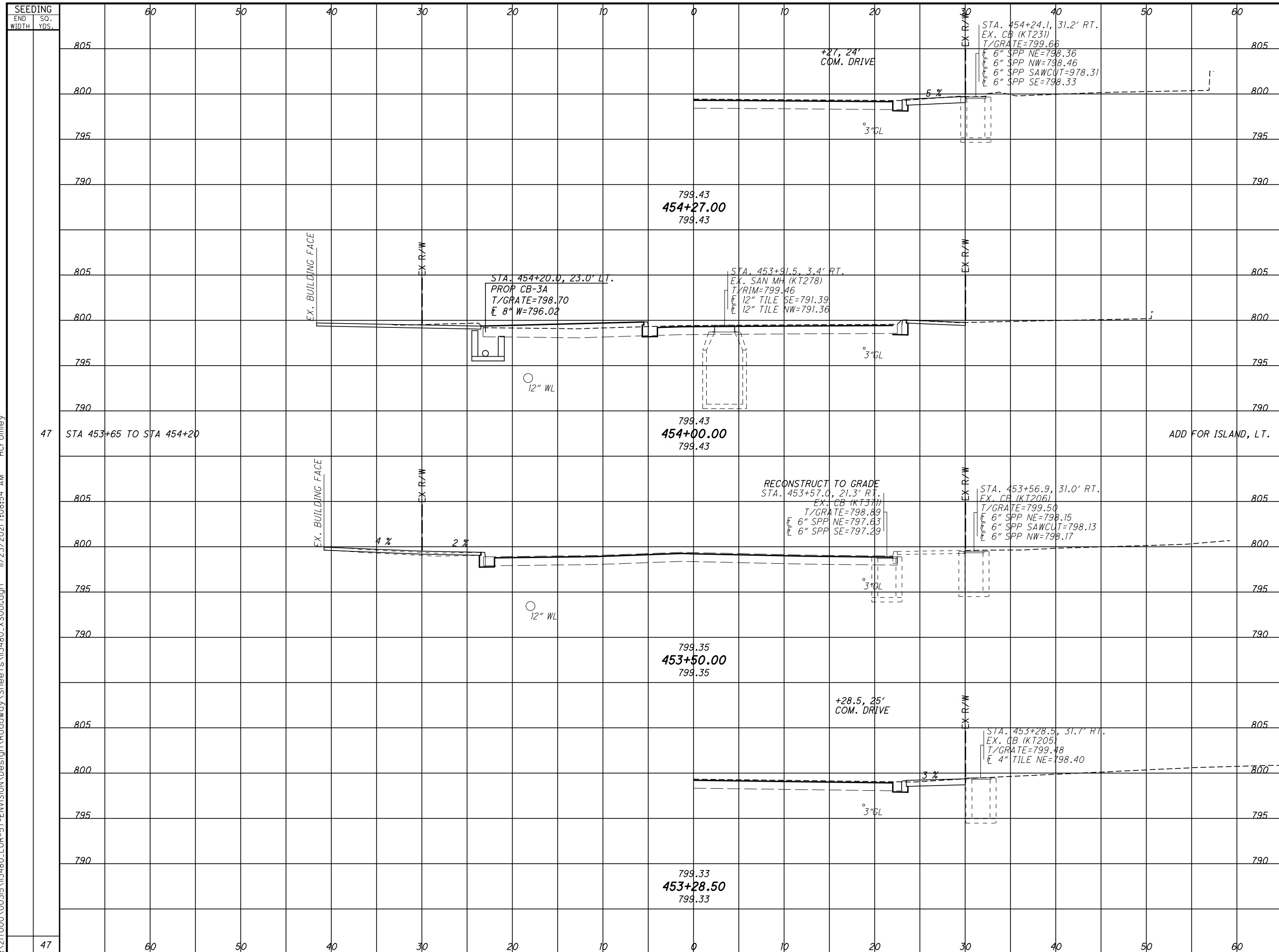
SEEDING	END AREA		VOLUME		CALCULATED	HAC	CHECKED	JTY
	CUT	FILL	CUT	FILL				
END WIDTH								
SO. YDS.								
805								
800								
795								
790								
805								
800								
795								
790								
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790								
805								
800								
795								
790								
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CROSS SECTIONS N. MAIN ST. (SR-57)  
STA. 452+00.00 TO STA. 453+00.00

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ENVISION PHASE 1

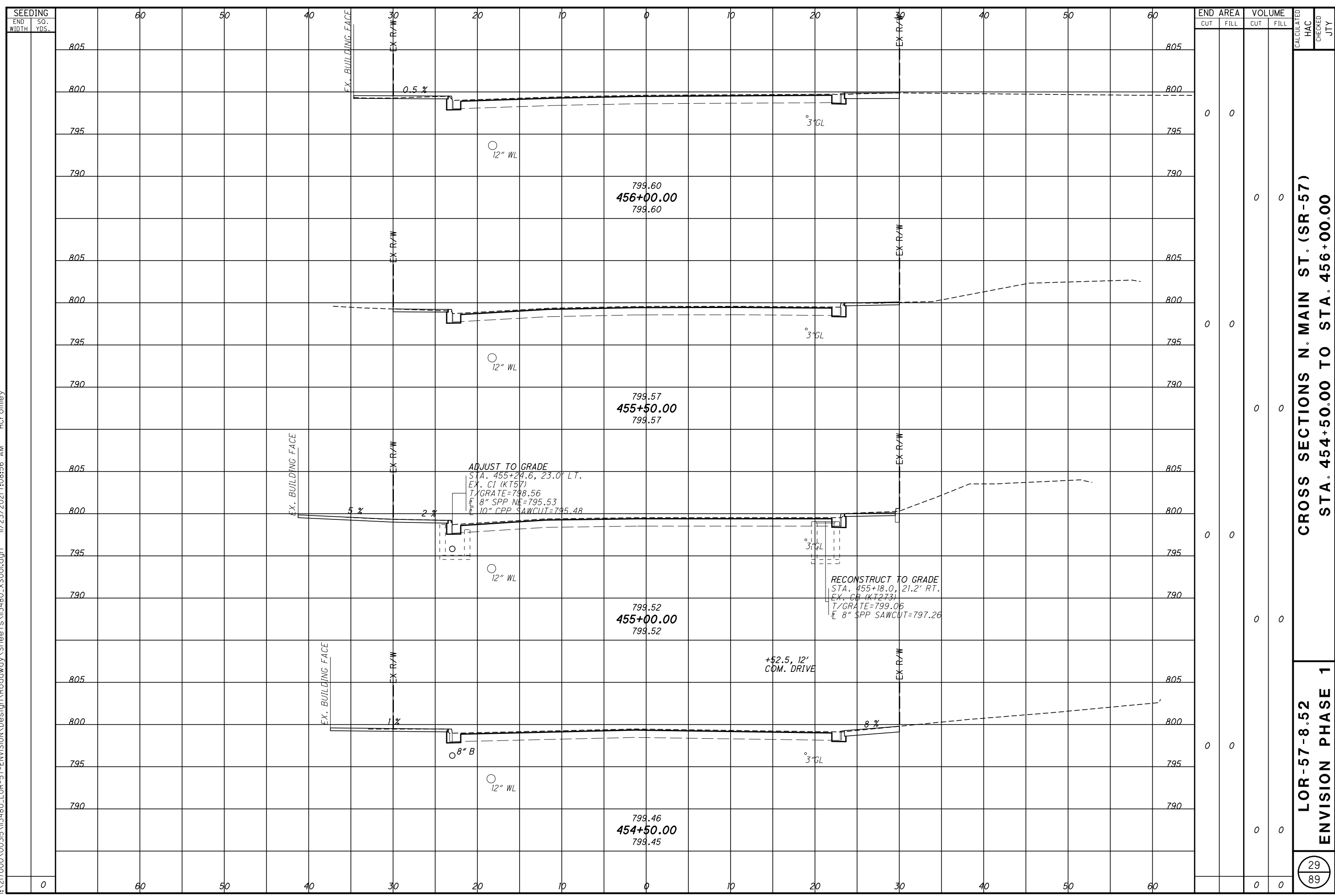


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END	AREA		VOLUME		CALCULATED	CHECKED	JTY
	CUT	FILL	CUT	FILL			
805							
800							
795							
790							
805							
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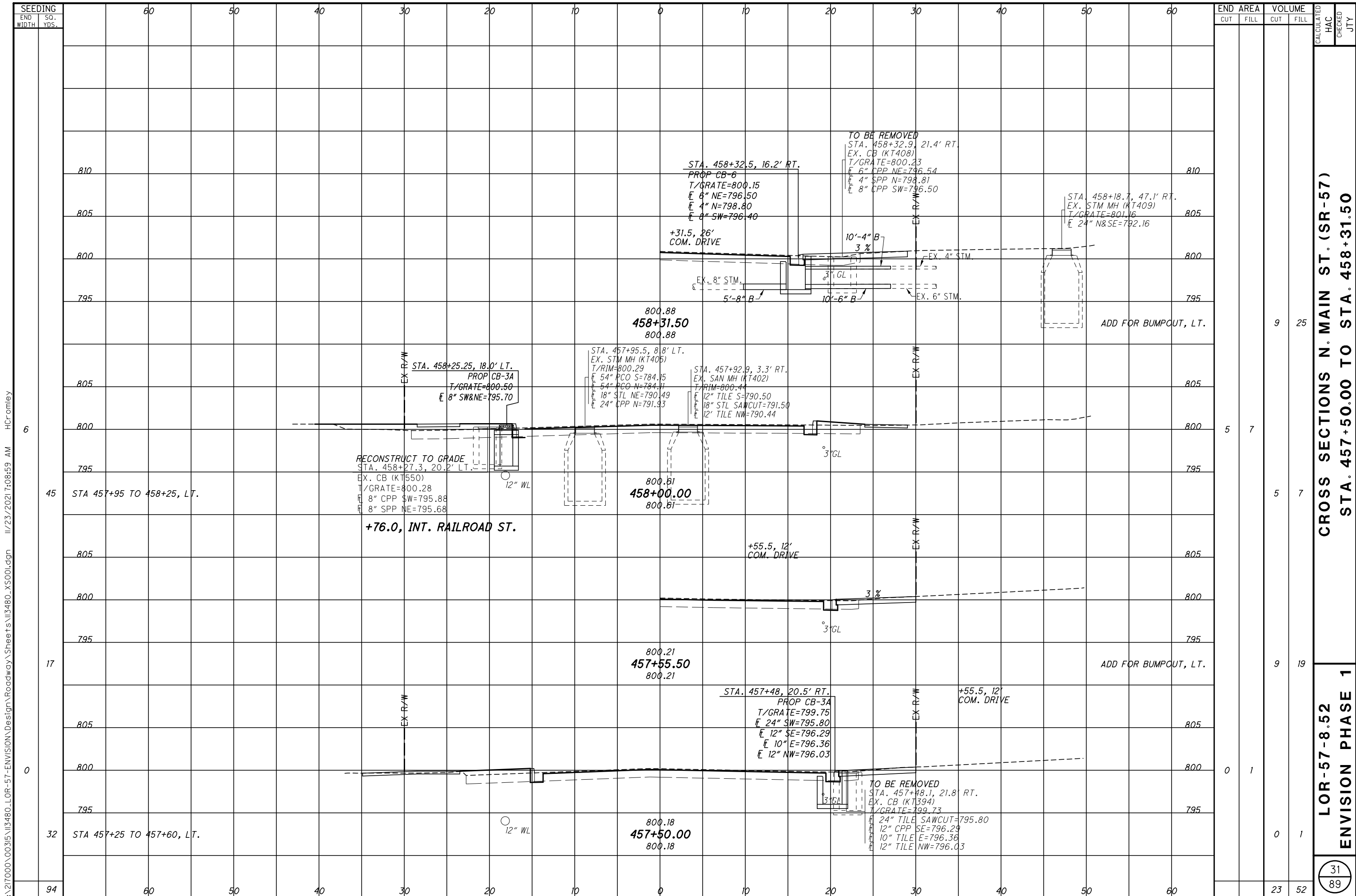
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END STA.	AREA		VOLUME		CALCULATED HAC	CHECKED JTY
	CUT	FILL	CUT	FILL		
454+50.00	0	0	0	0		
455+00.00	0	0	0	0		
455+50.00	0	0	0	0		
456+00.00	0	0	0	0		

**CROSS SECTIONS N. MAIN ST. (SR-57)**  
**STA. 454+50.00 TO STA. 456+00.00**  
**LOR-57-8.52**  
**ENVISION PHASE 1**

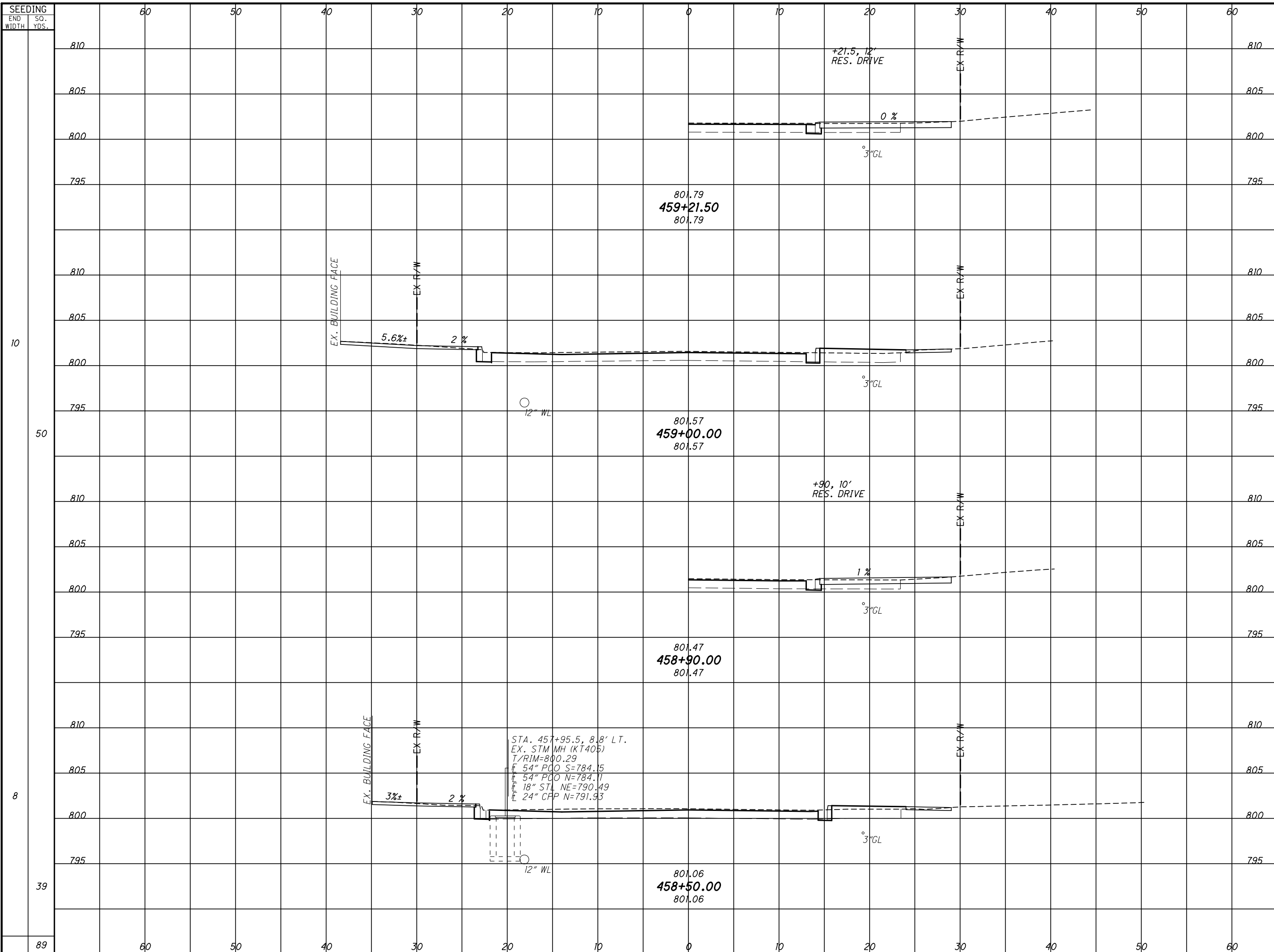




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END	AREA		VOLUME		CALCULATED	CHECKED	JTY
	CUT	FILL	CUT	FILL			
810							
805							
800							
795							
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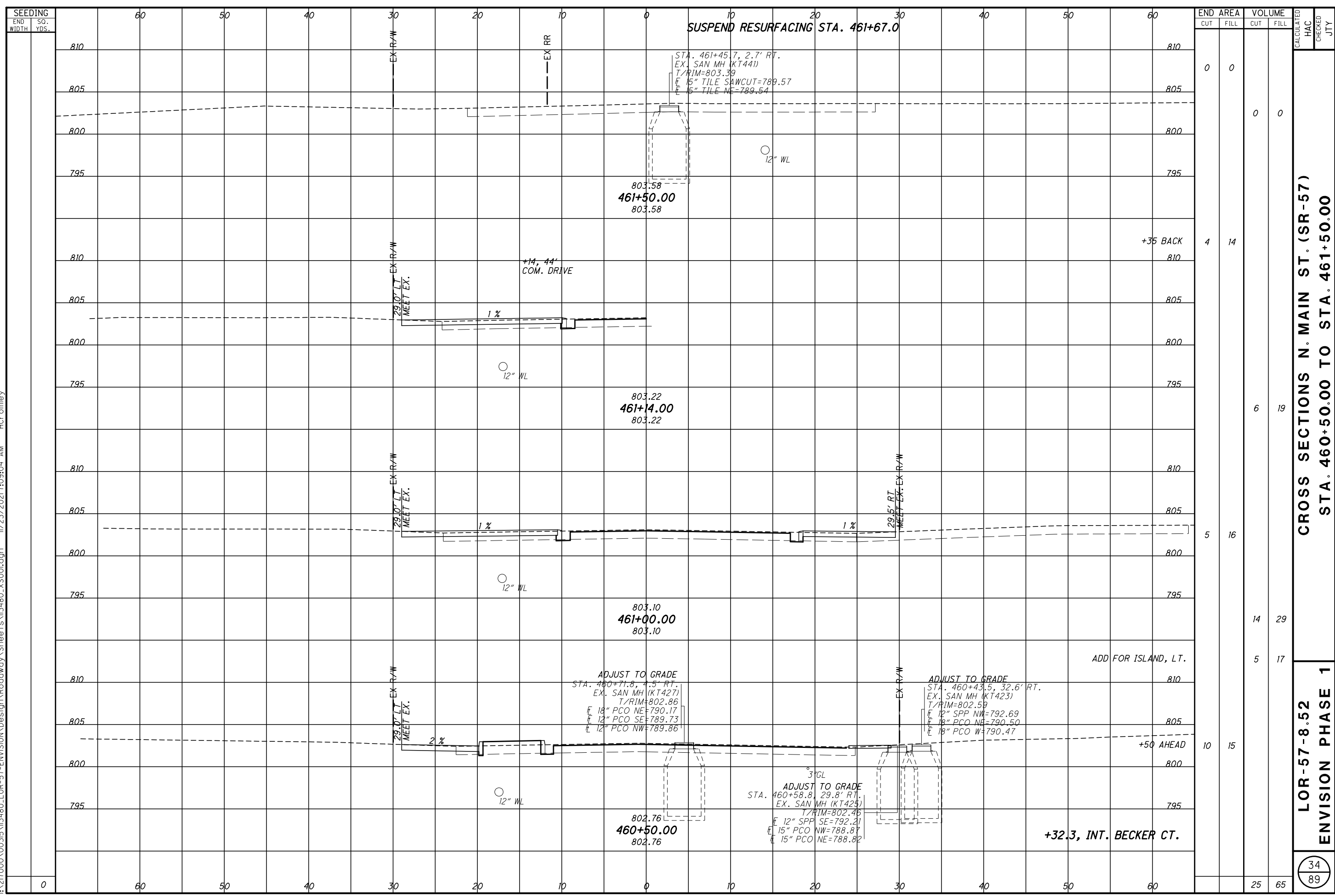
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SEEDING	END AREA		VOLUME		CALCULATED	CHECKED	JTY
	CUT	FILL	CUT	FILL			
810							
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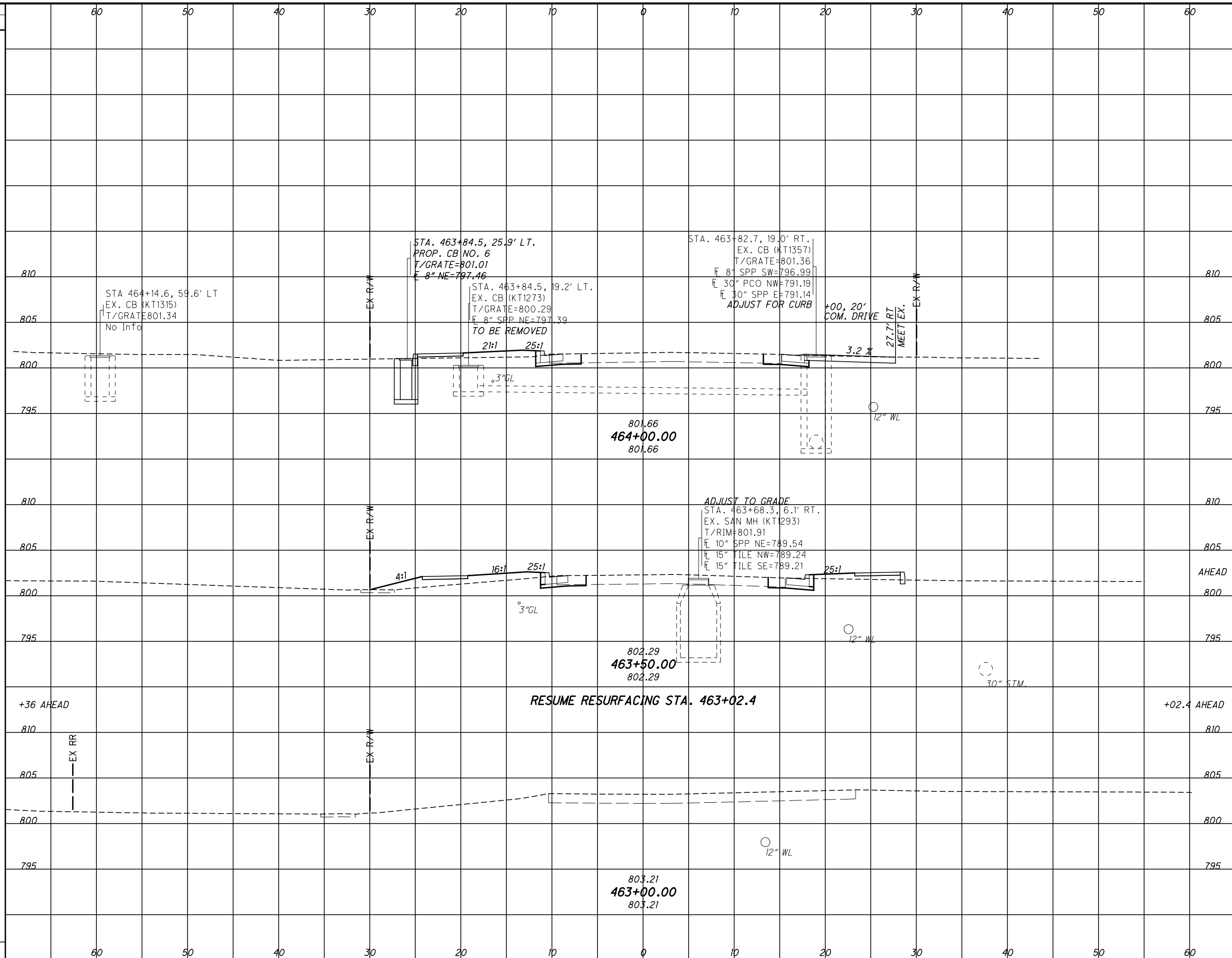


**CROSS SECTIONS N. MAIN ST. (SR-57)  
STA. 460+50.00 TO STA. 461+50.00**

**LOR-57-8.52  
ENVISION PHASE 1**

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SEEDING	
END WIDTH	SO. YDS.
108	
19	
30	
19	
78	
9	

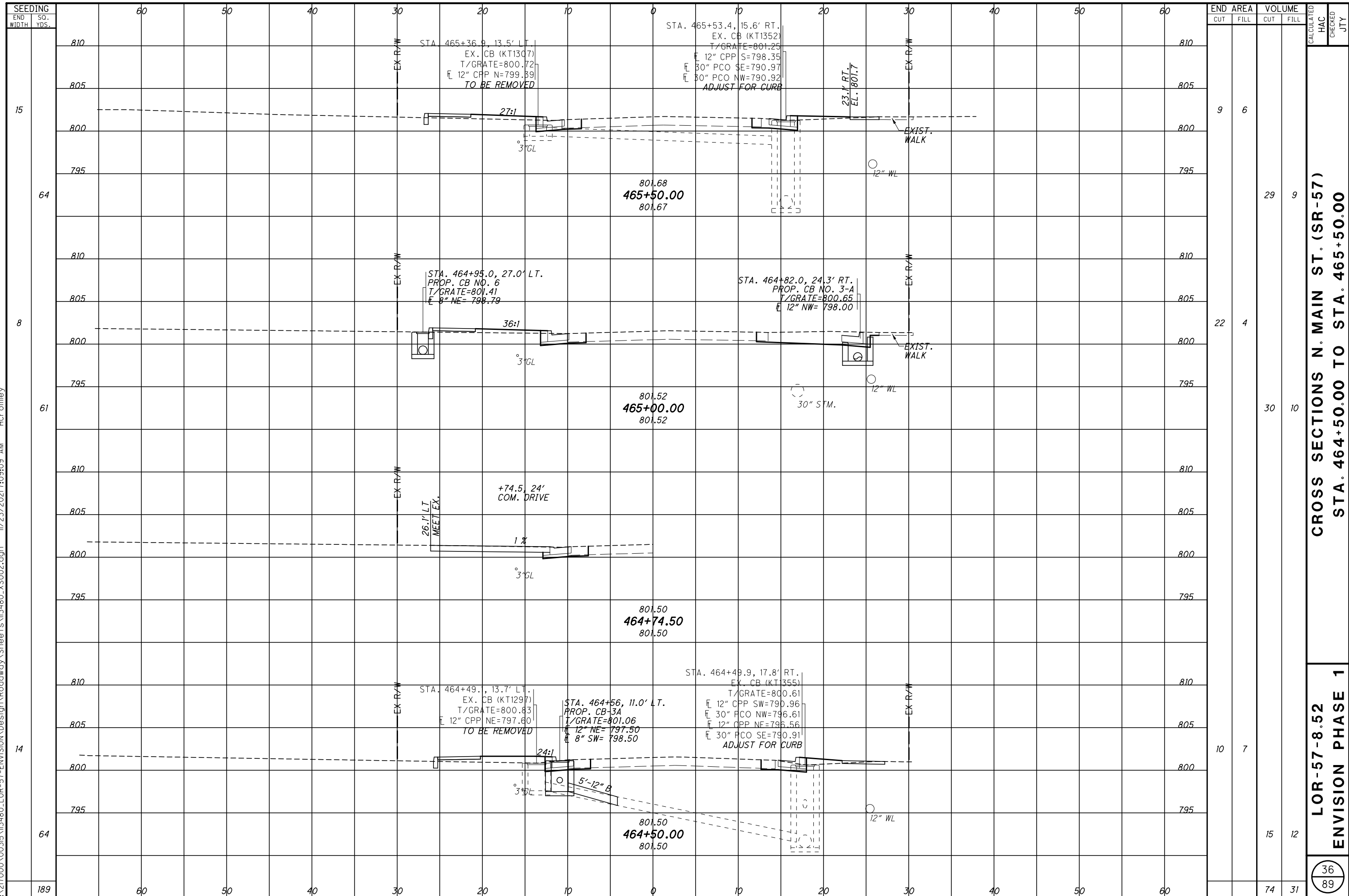


END AREA		VOLUME	
CUT	FILL	CUT	FILL
6	6	11	22
6	18	11	32
6	18		
		22	54

**CROSS SECTIONS N. MAIN ST. (SR-57)**  
**STA. 463+00.00 TO STA. 464+00.00**  
**LOR-57-8.52**  
**ENVISION PHASE 1**



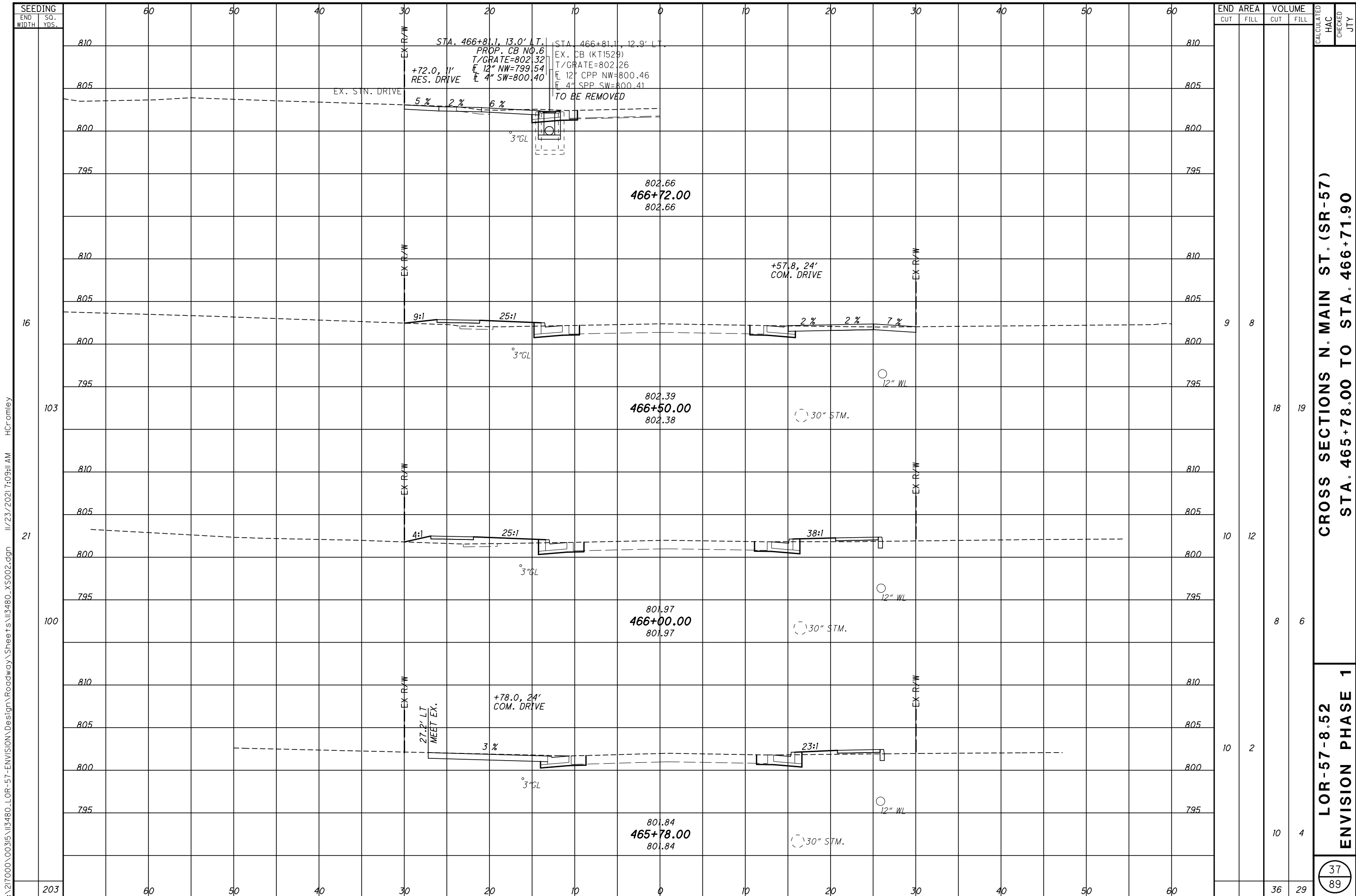
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SEEDING														END AREA		VOLUME		CALCULATED				
END WIDTH	SO. YDS.	60	50	40	30	20	10	0	10	20	30	40	50	60	CUT	FILL	CUT	FILL	HAC	CHECKED	JTY	
15															9	6						
64															22	4	29	9				
8															61		30	10				
61																						
14															10	7						
64															15	12						
189															74	31						

**CROSS SECTIONS N. MAIN ST. (SR-57)**  
**STA. 464+50.00 TO STA. 465+50.00**  
**LOR-57-8.52**  
**ENVISION PHASE 1**

36  
89

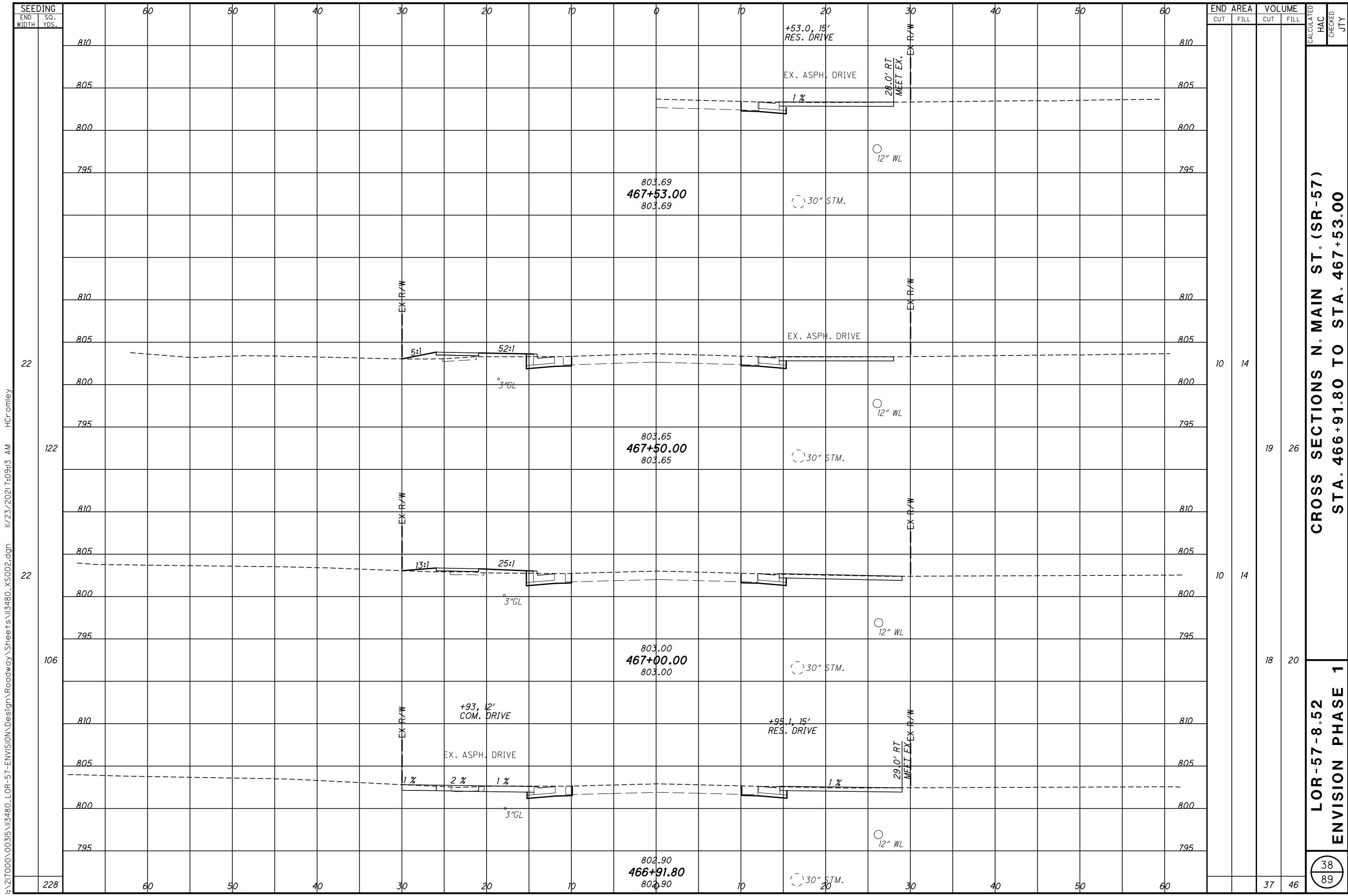


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STATION	SEEDING		END AREA		VOLUME		CALCULATED HAC	CHECKED JTY
	END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL		
466+72.00	60	60	9	8	18	19		
466+50.00	60	60	10	12	8	6		
466+00.00	60	60	10	2	10	4		
465+78.00	60	60	36	29				

**CROSS SECTIONS N. MAIN ST. (SR-57)**  
**STA. 465+78.00 TO STA. 466+71.90**  
**LOR-57-8.52**  
**ENVISION PHASE 1**

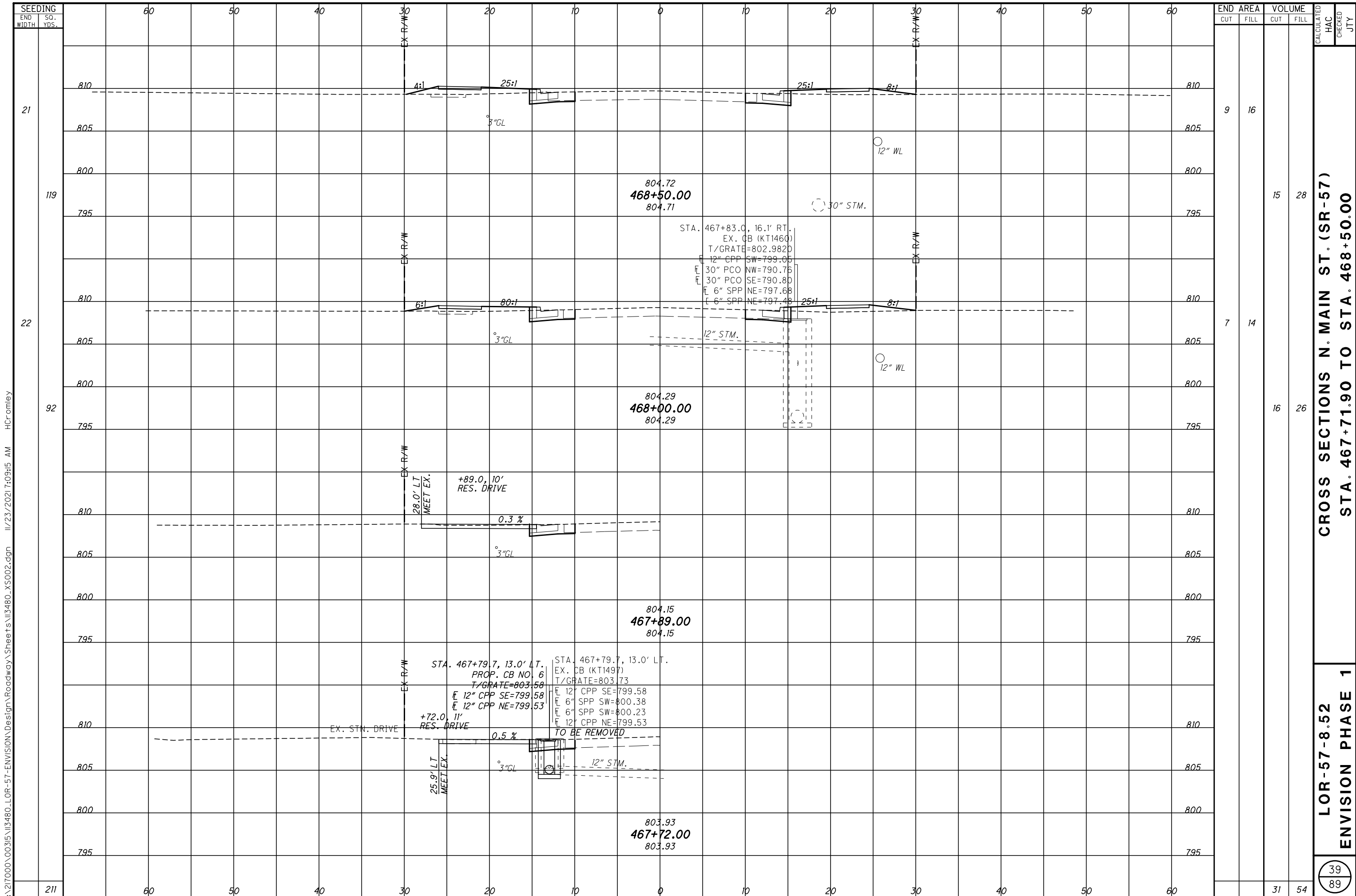
37  
89



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**CROSS SECTIONS N. MAIN ST. (SR-57)**  
**STA. 466+91.80 TO STA. 467+53.00**  
**LOR-57-8.52**  
**ENVISION PHASE 1**

38  
 89

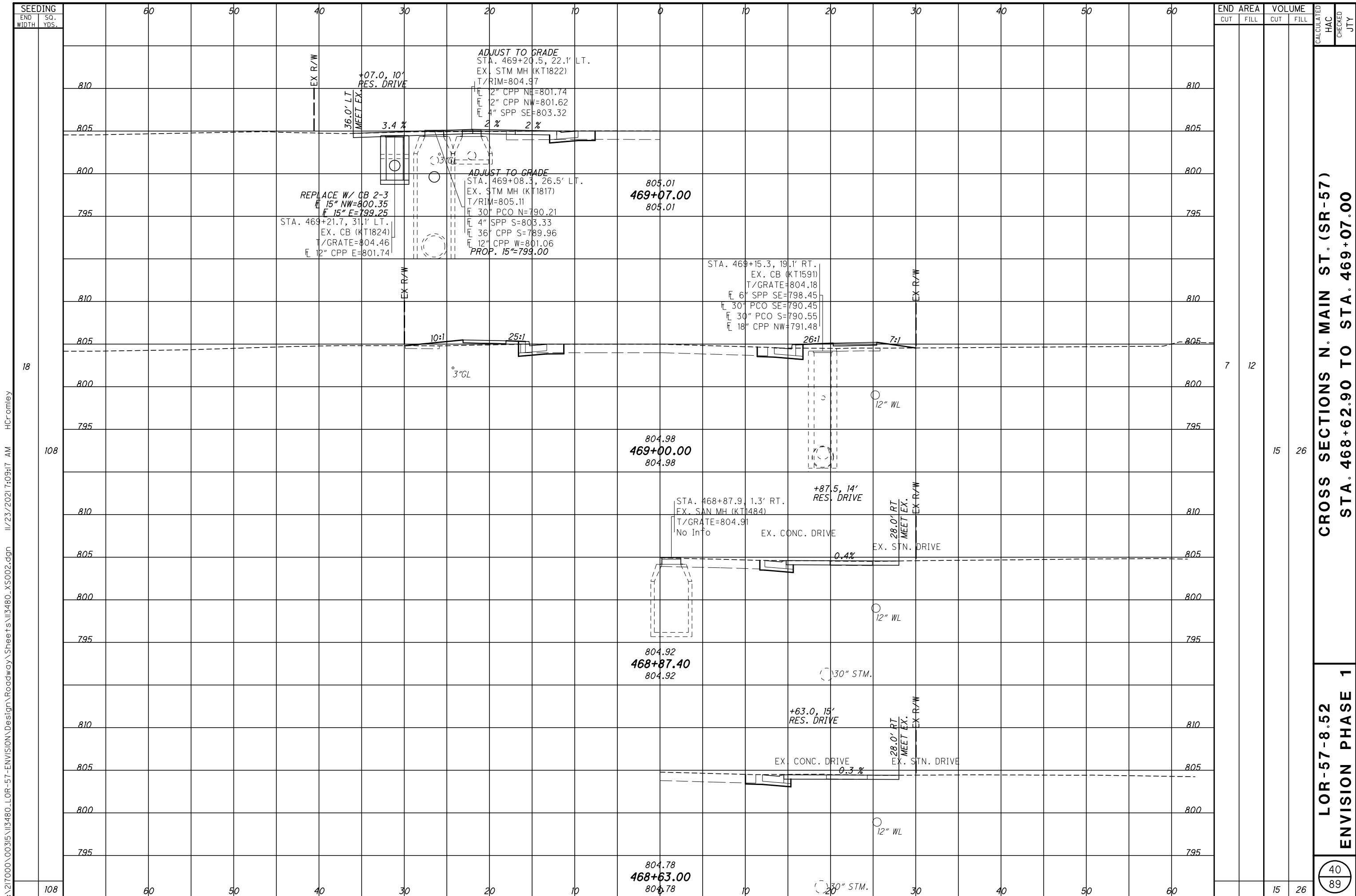


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STATION	SEEDING		END AREA		VOLUME		CALCULATED HAC	CHECKED JTY
	END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL		
21					9	16		
119							15	28
22					7	14		
92							16	26
211							31	54

**CROSS SECTIONS N. MAIN ST. (SR-57)**  
**STA. 467+71.90 TO STA. 468+50.00**  
**LOR-57-8.52**  
**ENVISION PHASE 1**

39  
89

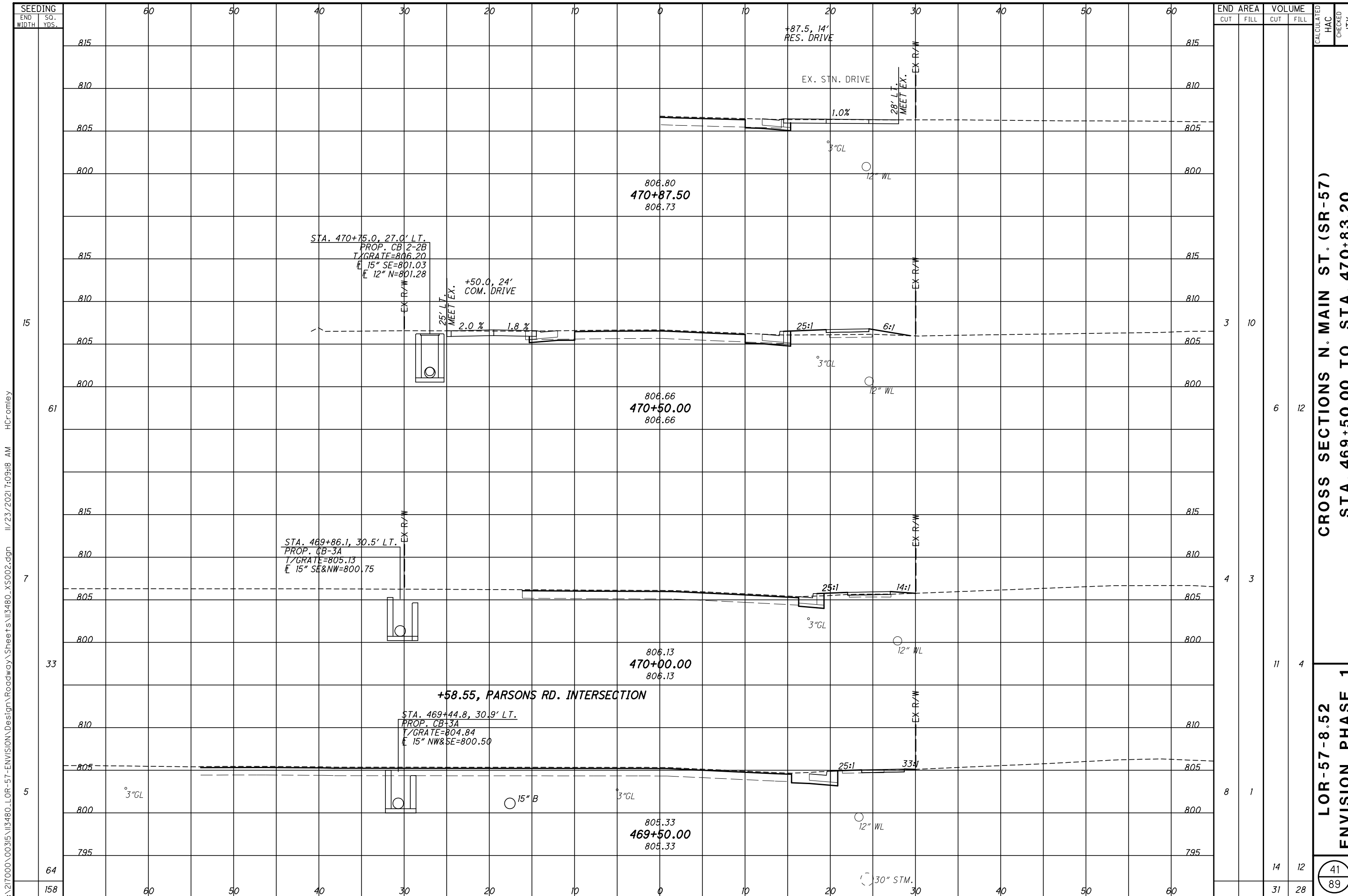


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SEEDING		END AREA		VOLUME		CALCULATED	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL	HAC	JTY
60	810						
50	805						
40	800						
30	795						
20	810						
10	805						
0	800						
10	795						
20	810						
30	805						
40	800						
50	795						
60	810						
		7	12	15	26		

**LOR-57-8.52**  
**ENVISION PHASE 1**  
**CROSS SECTIONS N. MAIN ST. (SR-57)**  
**STA. 468+62.90 TO STA. 469+07.00**

40  
89

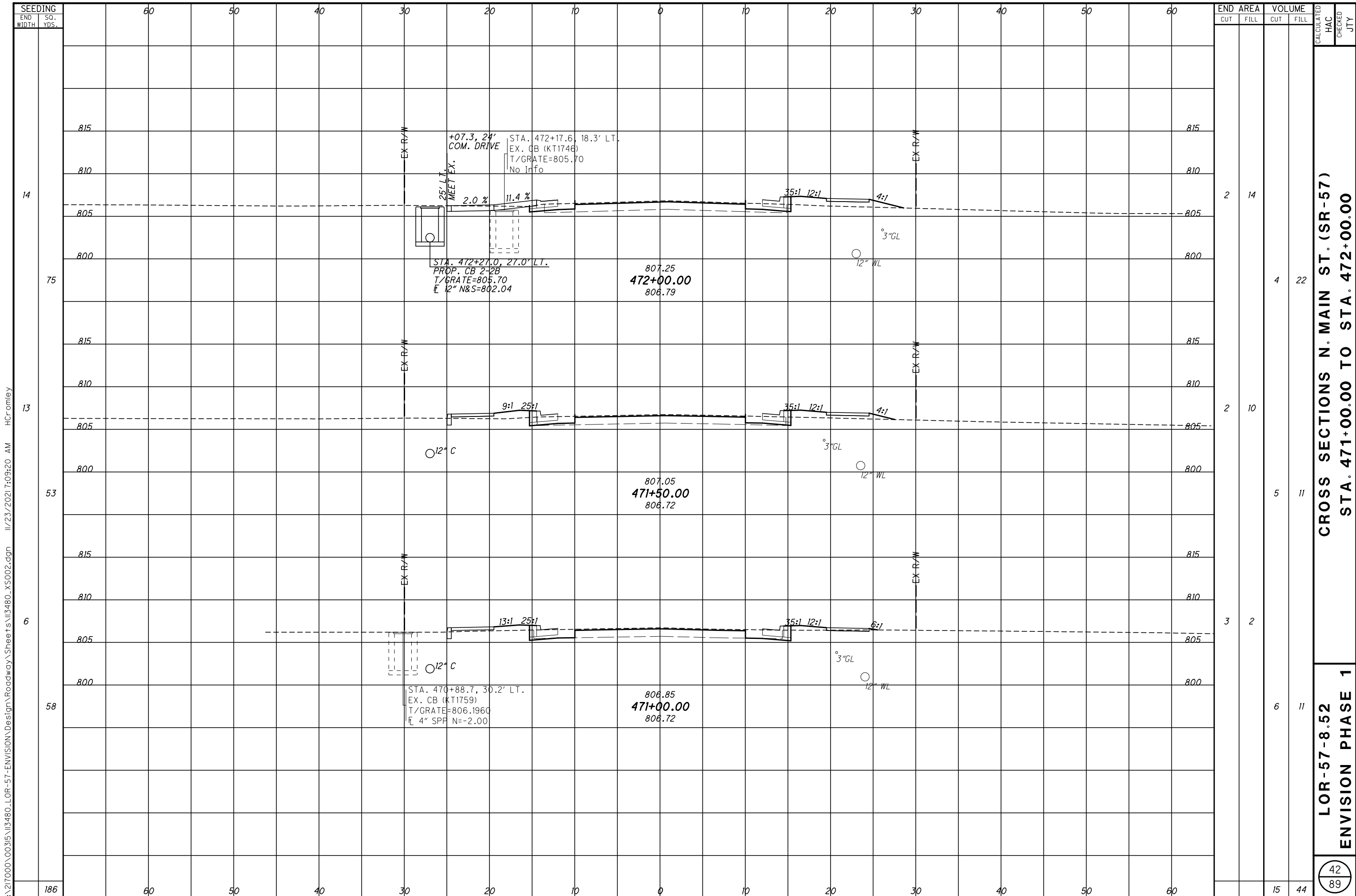


**CROSS SECTIONS N. MAIN ST. (SR-57)**  
**STA. 469+50.00 TO STA. 470+83.20**

**LOR-57-8.52**  
**ENVISION PHASE 1**

41  
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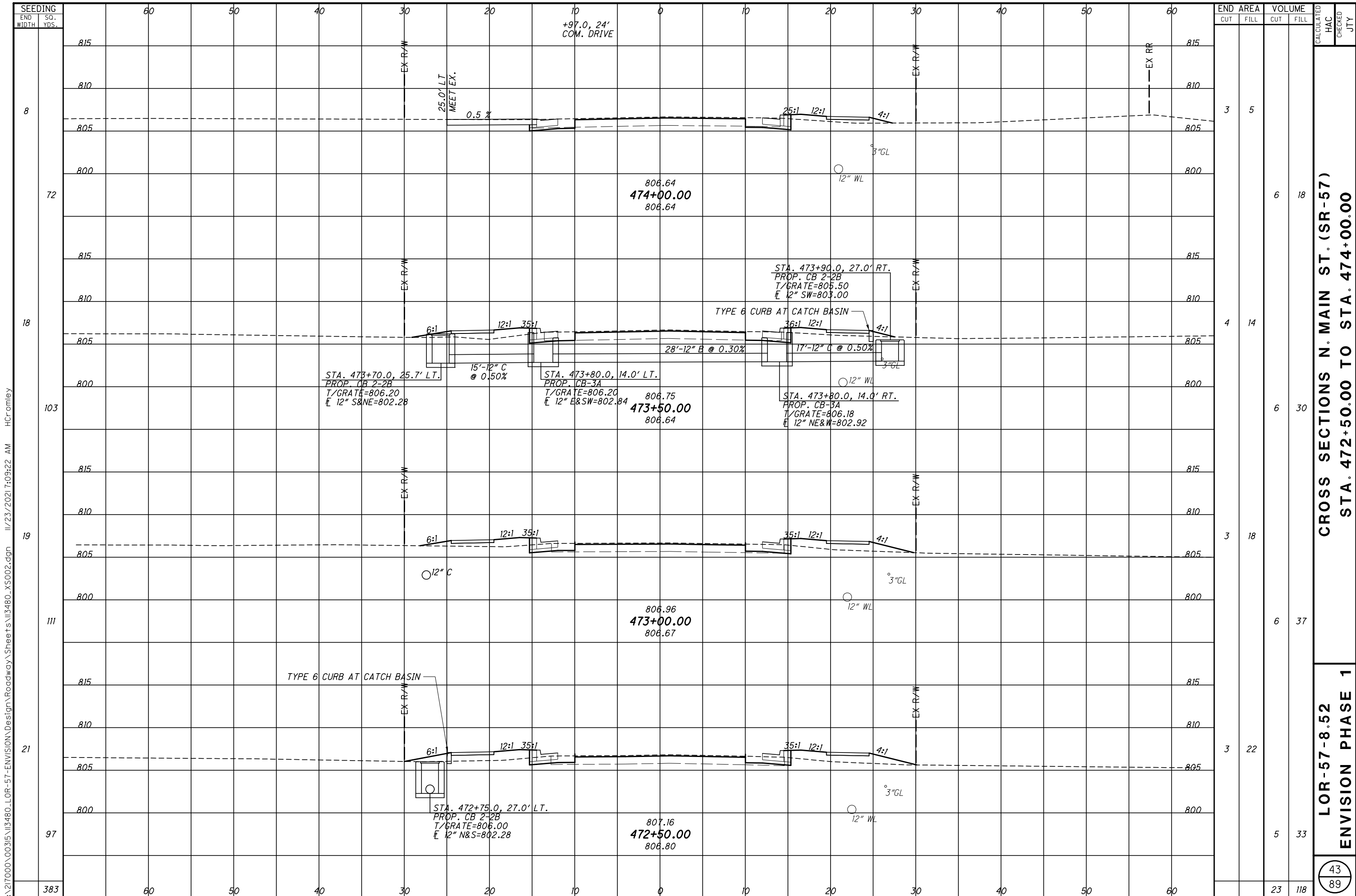


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SEEDING	END AREA		VOLUME		CALCULATED	CHECKED	JTY
	CUT	FILL	CUT	FILL			
END WIDTH							
SO. YDS.							
14			2	14			
75			4	22			
13			2	10			
53			5	11			
6			3	2			
58			6	11			
186			15	44			

**LOR-57-8.52 ENVISION PHASE 1**  
**CROSS SECTIONS N. MAIN ST. (SR-57)**  
**STA. 471+00.00 TO STA. 472+00.00**

42  
89

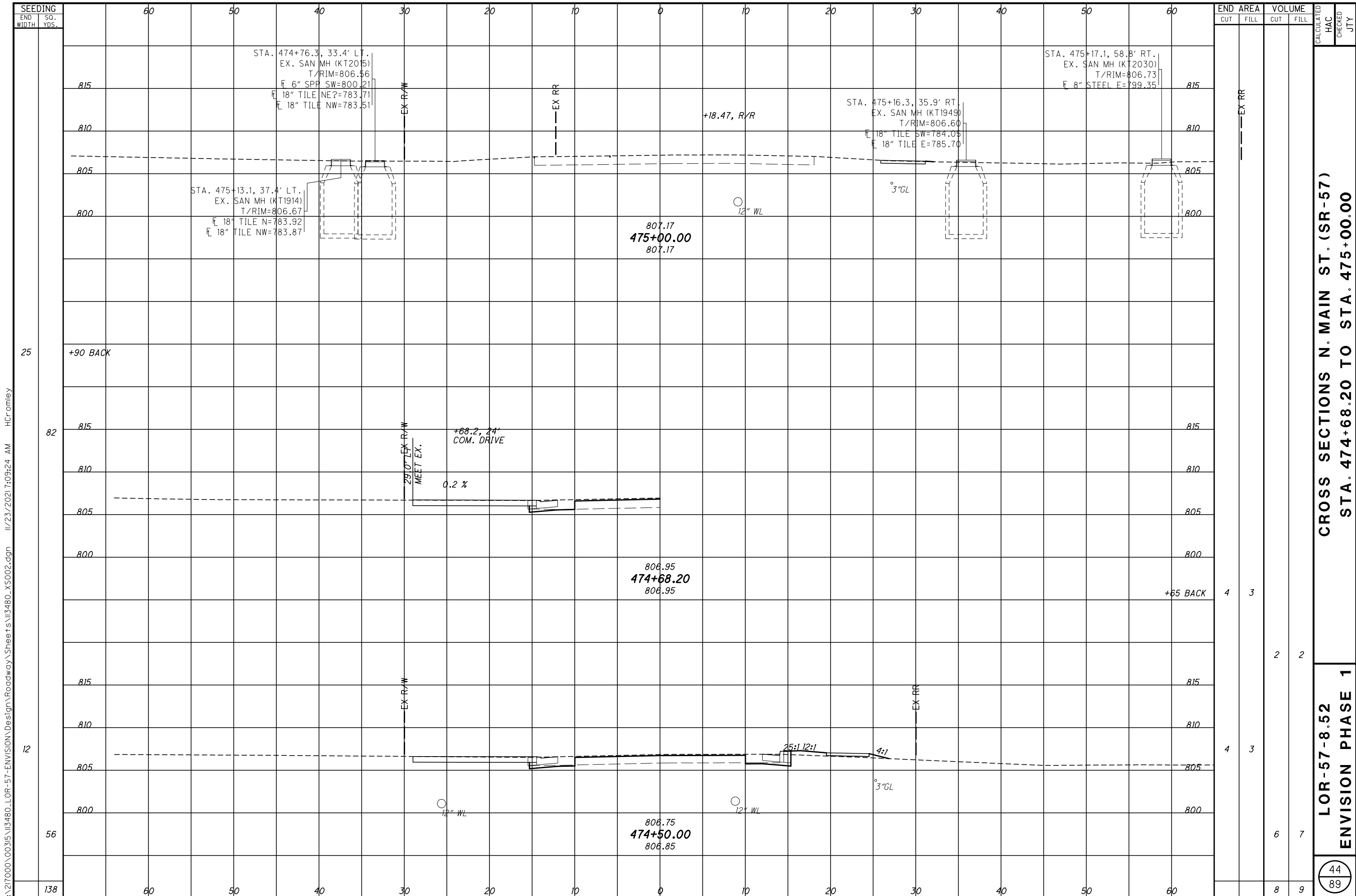


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SEEDING	END SO.																							
	WIDTH	YDS.	60	50	40	30	20	10	0	10	20	30	40	50	60	END AREA	VOLUME	CALCULATED	HAC	CHECKED	JTY			
			815	810	805	800	815	810	805	800	815	810	805	800	815	3	5							
			815	810	805	800	815	810	805	800	815	810	805	800	815	4	14							
			815	810	805	800	815	810	805	800	815	810	805	800	815	3	18							
			815	810	805	800	815	810	805	800	815	810	805	800	815	6	30							
			815	810	805	800	815	810	805	800	815	810	805	800	815	6	37							
			815	810	805	800	815	810	805	800	815	810	805	800	815	3	22							
			815	810	805	800	815	810	805	800	815	810	805	800	815	5	33							
			383																					

CROSS SECTIONS N. MAIN ST. (SR-57)  
 STA. 472+50.00 TO STA. 474+00.00  
 LOR-57-8.52  
 ENVISION PHASE 1



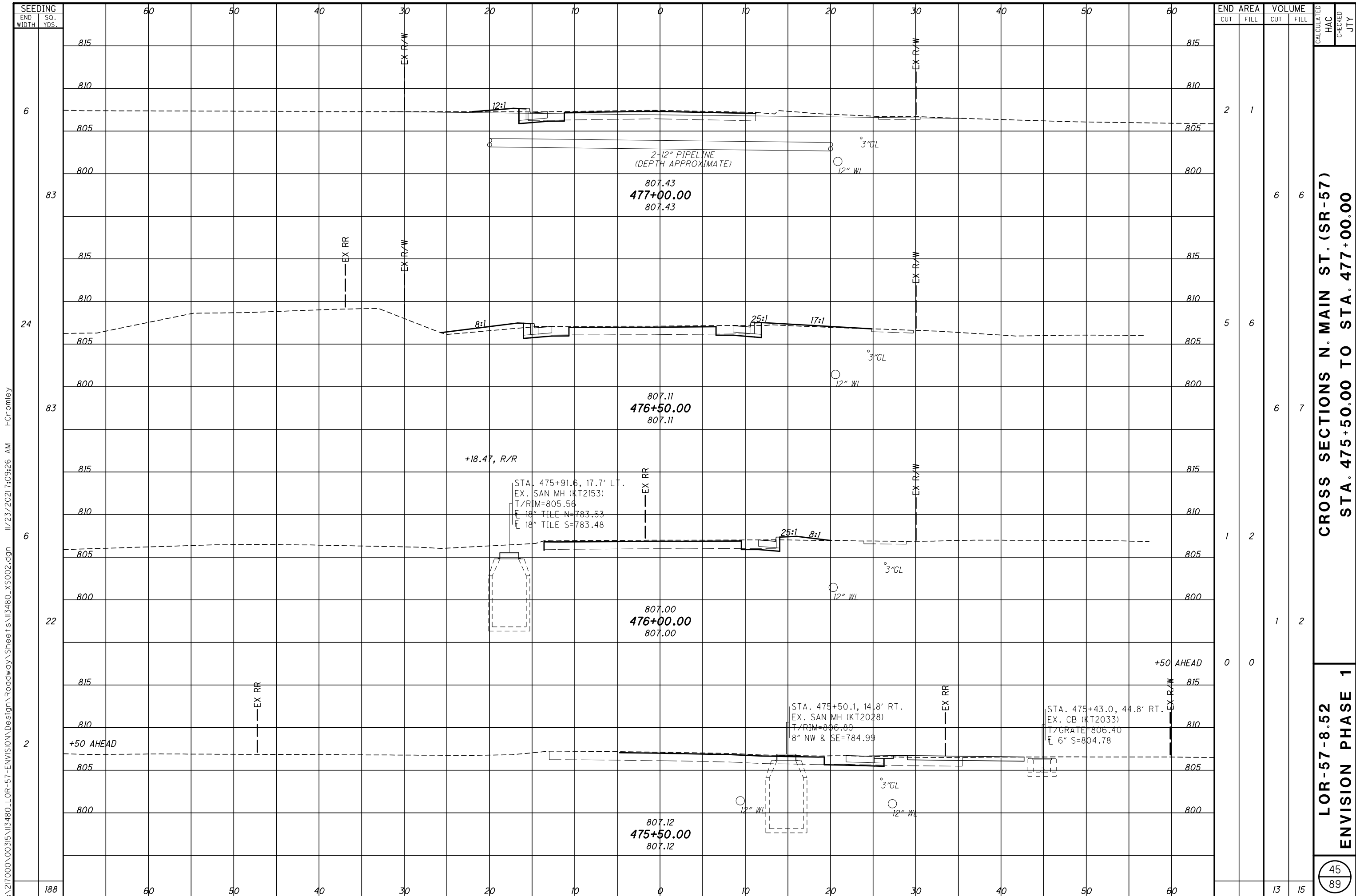


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SEEDING	60		50		40		30		20		10		0		10		20		30		40		50		60		END AREA		VOLUME		CALCULATED HAC	CHECKED JTY	
	END WIDTH	SO. YDS.																							CUT		FILL						
25																																	
82																										4	3		2	2			
12																										4	3						
56																																	
138																																	

**CROSS SECTIONS N. MAIN ST. (SR-57)**  
**STA. 474+68.20 TO STA. 475+00.00**  
**LOR-57-8.52**  
**ENVISION PHASE 1**

44  
89

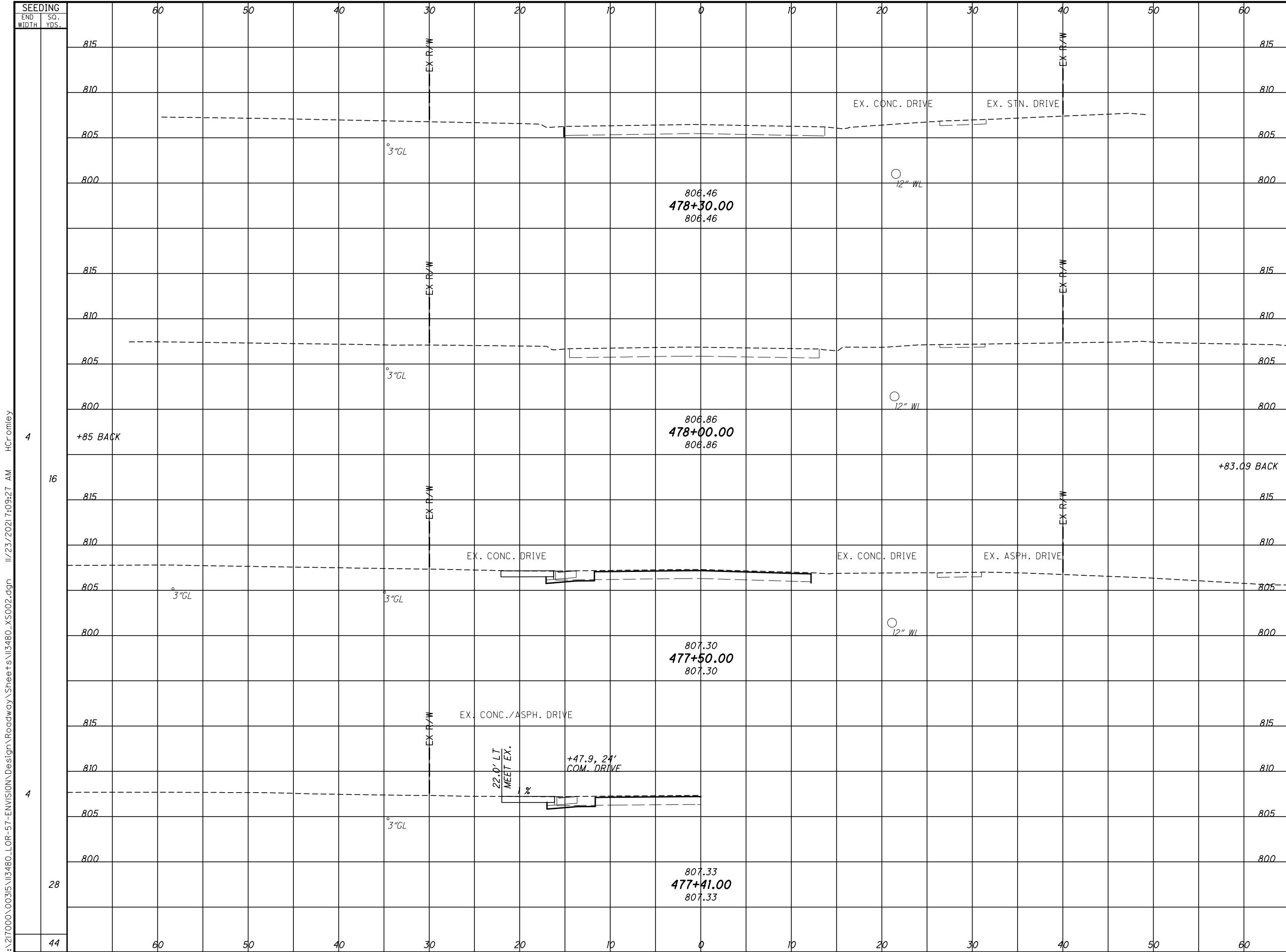


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SEEDING	END AREA		VOLUME		CALCULATED	CHECKED	JTY
	CUT	FILL	CUT	FILL			
6	2	1					
83			6	6			
24	5	6					
83			6	7			
6	1	2					
22			1	2			
2	0	0					
188			13	15			

**LOR-57-8.52**  
**ENVISION PHASE 1**  
**CROSS SECTIONS N. MAIN ST. (SR-57)**  
**STA. 475+50.00 TO STA. 477+00.00**

45  
89



SEEDING		END AREA		VOLUME		CALCULATED	CHECKED
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL	HAC	JTY
60	815						
60	810						
60	805						
60	800						
60	815						
60	810						
60	805						
60	800						
4	+85 BACK						
16	815			2	0		
16	810						
16	805			2	0		
16	800						
4				4	1		
28	815						
28	810						
28	805						
28	800						
44	815						
44	810						
44	805						
44	800						
44	815			6	1		

**LOR-57-8.52**  
**ENVISION PHASE 1**  
**CROSS SECTIONS N. MAIN ST. (SR-57)**  
**STA. 477+41.00 TO STA. 478+30.00**

46  
 89

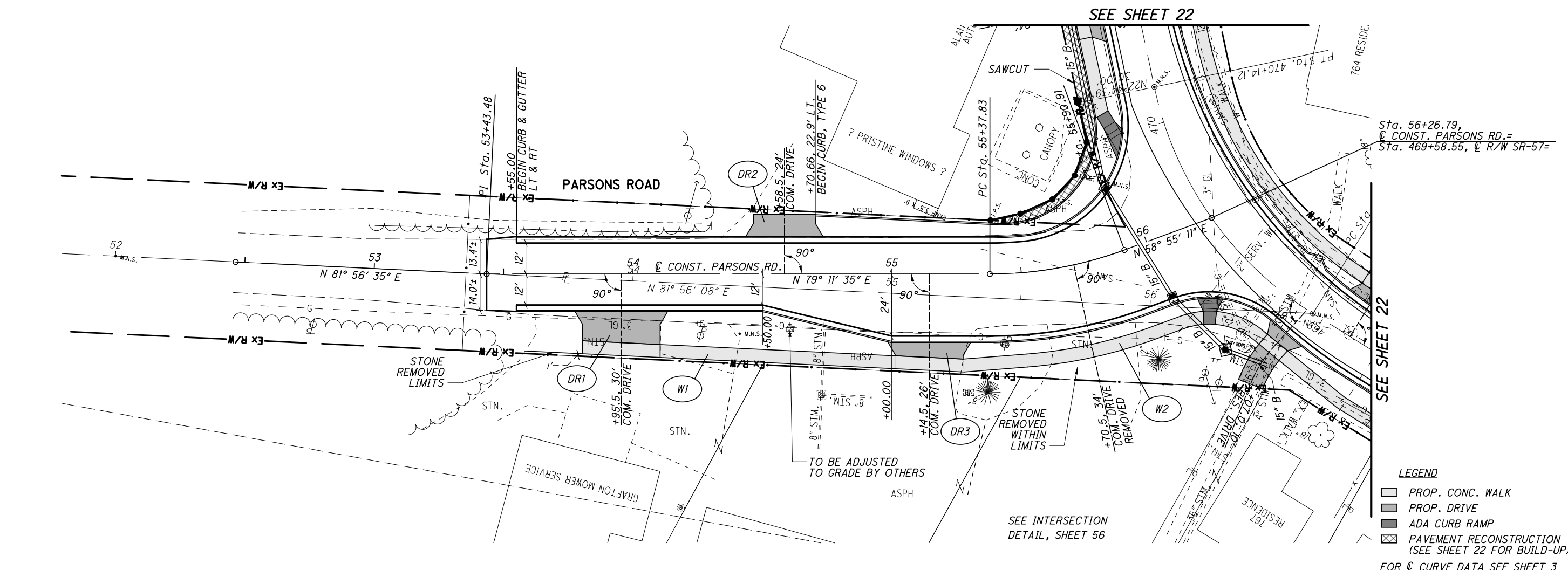
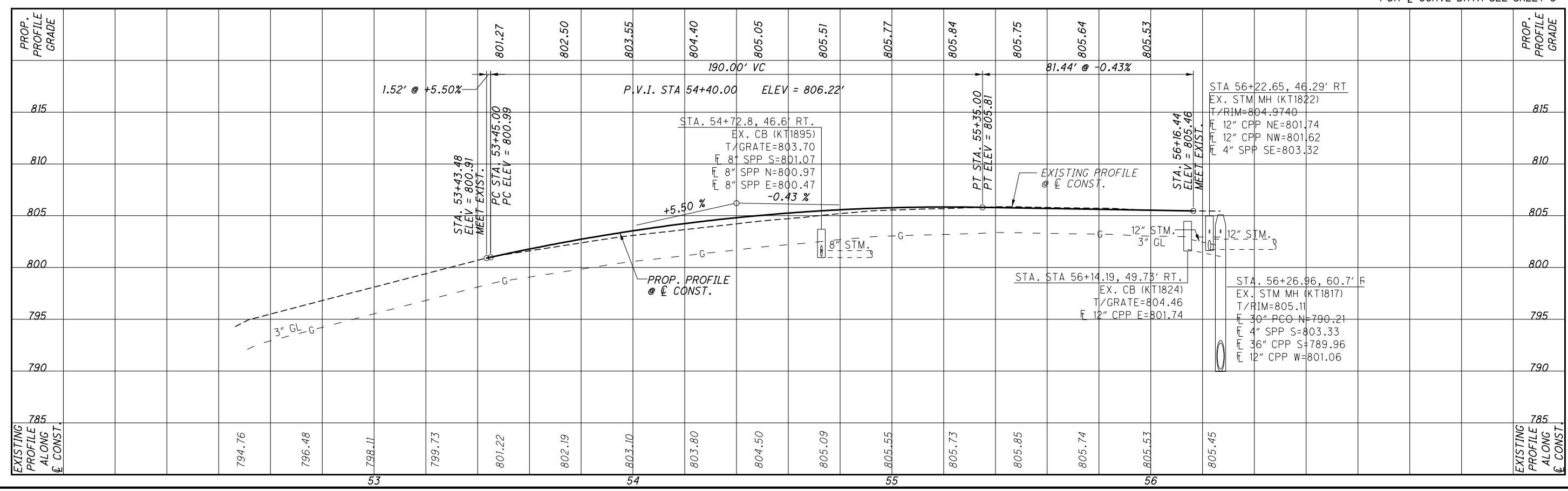
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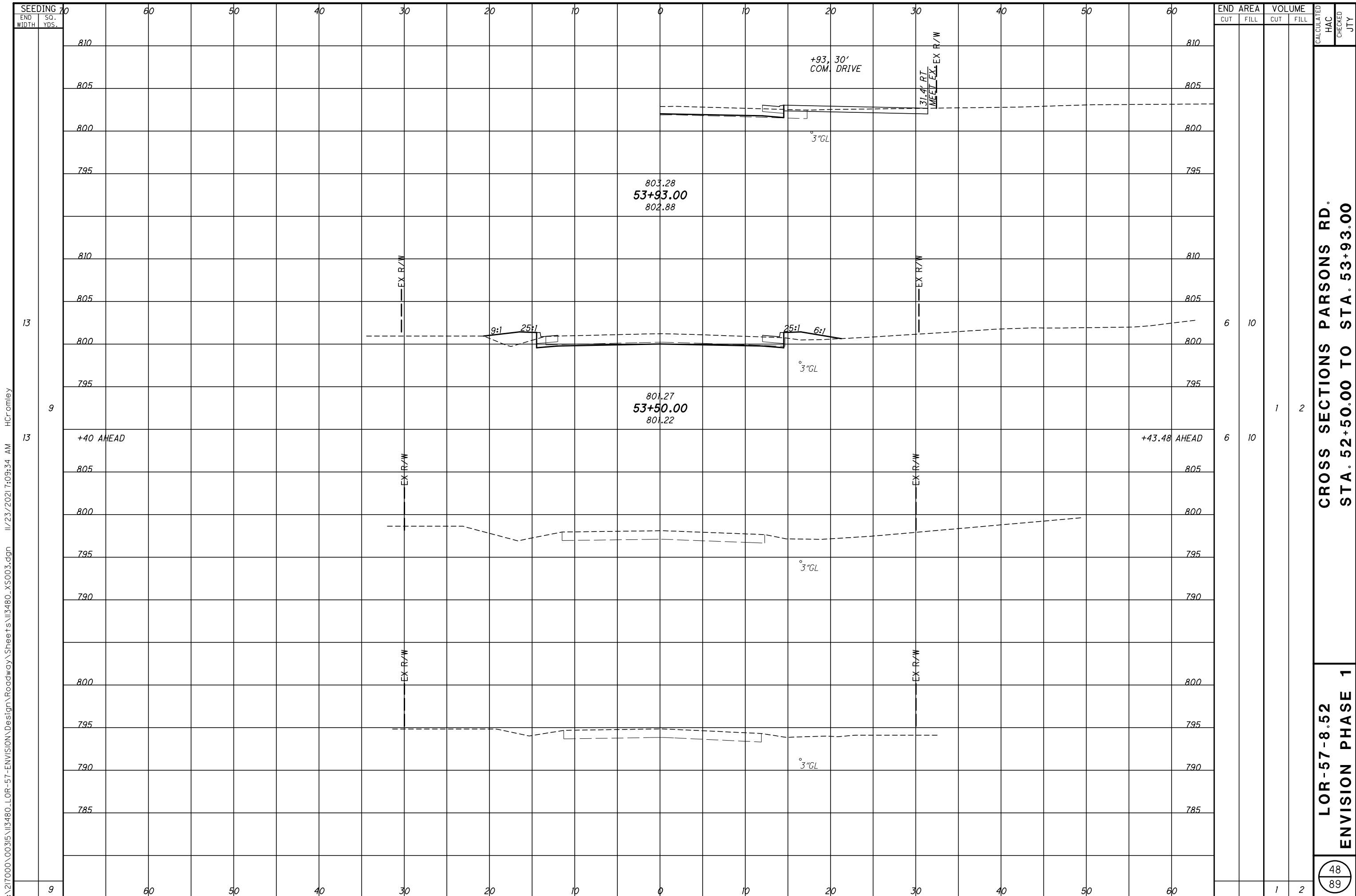


**PLAN AND PROFILE - PARSONS ROAD  
STA. 477+00 TO STA. 481+00**

**LOR-57-8.52  
ENVISION PHASE 1**



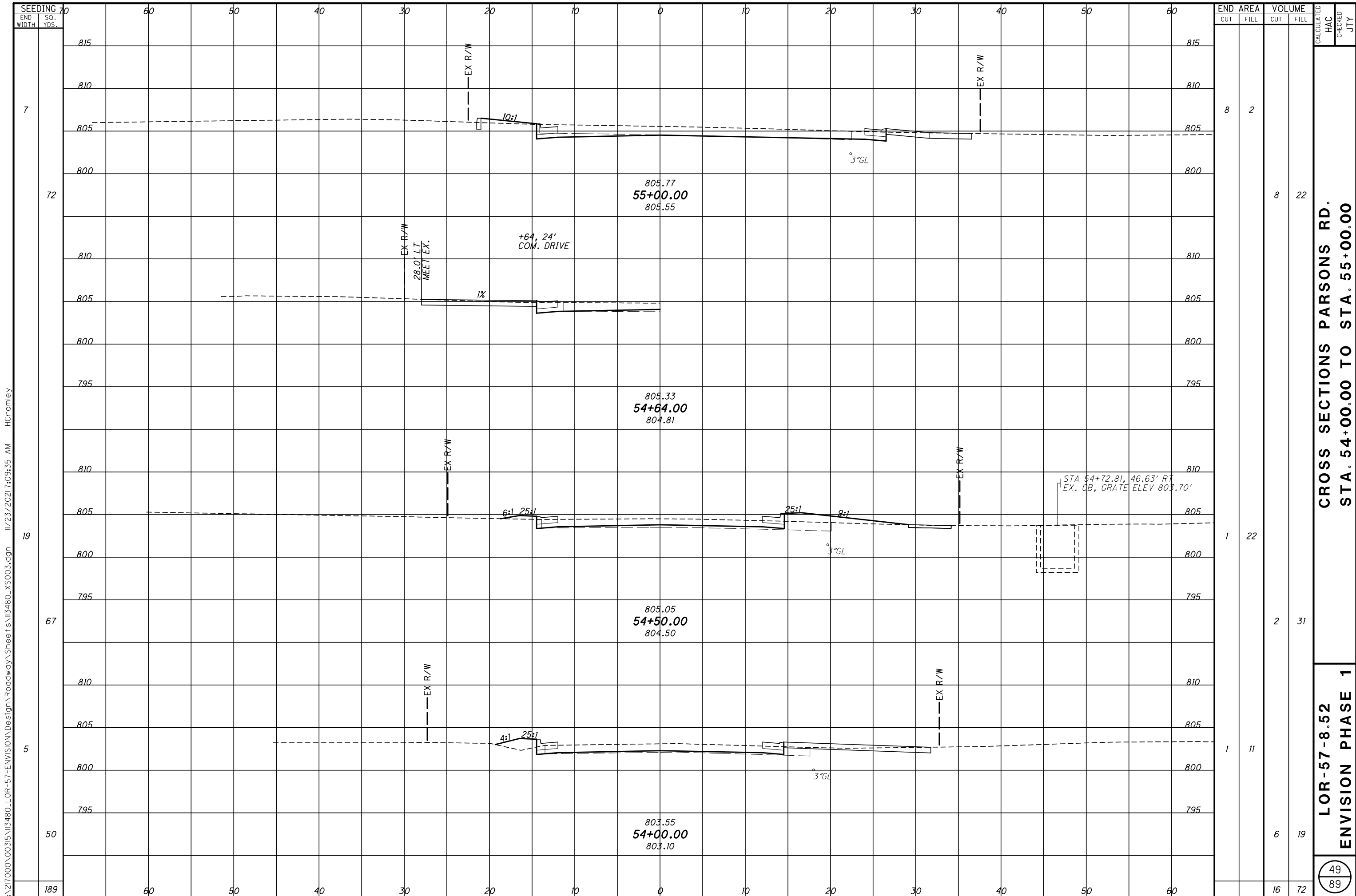
Sta. 56+26.79,  
C. CONST. PARSONS RD.=  
Sta. 469+58.55, C. R/W SR-57=



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**CROSS SECTIONS PARSONS RD.  
STA. 52+50.00 TO STA. 53+93.00**

**LOR-57-8.52  
ENVISION PHASE 1**



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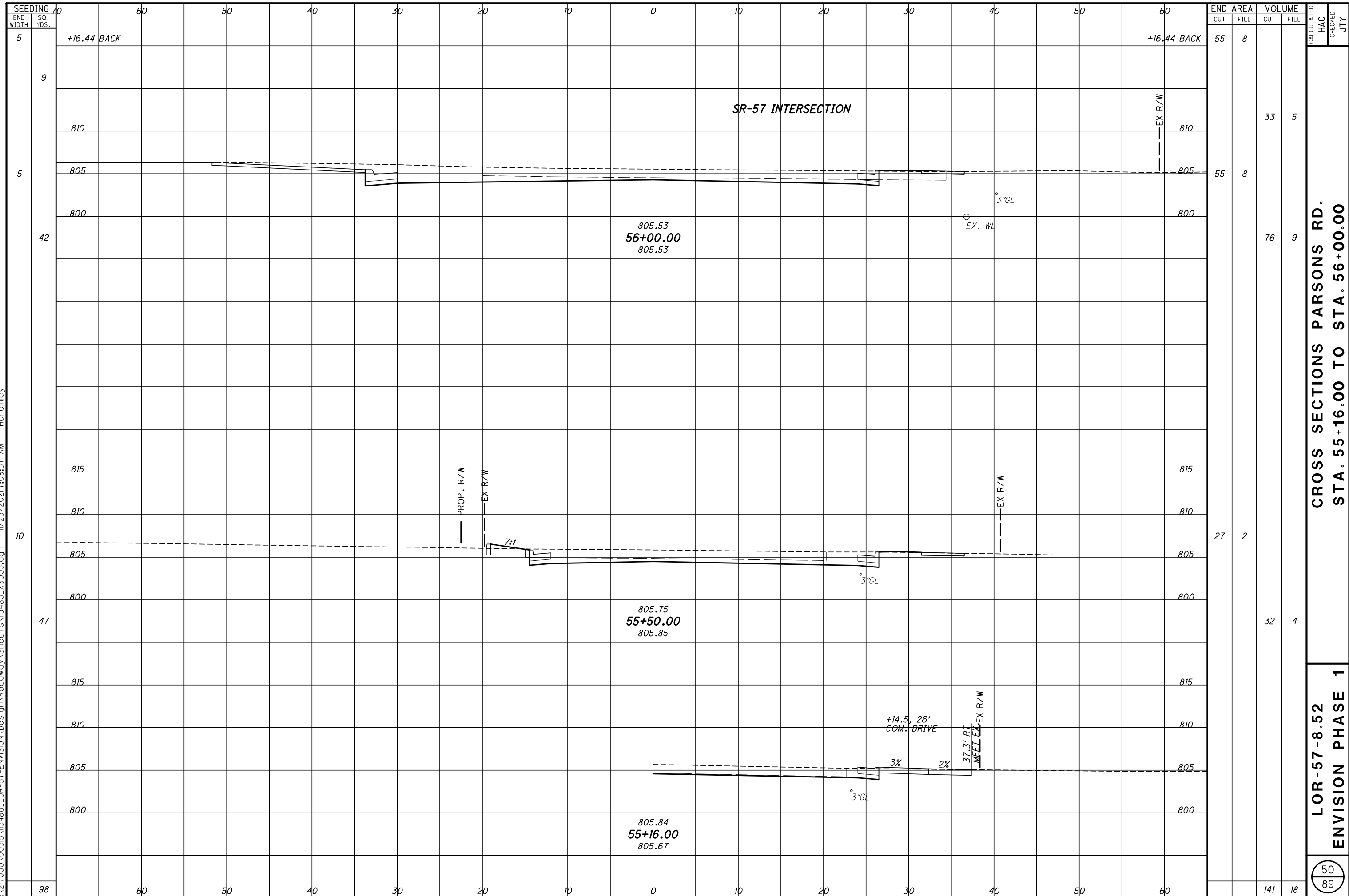
**CROSS SECTIONS PARSONS RD.**  
**STA. 54+00.00 TO STA. 55+00.00**

**LOR-57-8.52**  
**ENVISION PHASE 1**

**CALCULATED**  
**HAC**  
**CHECKED**  
**JTY**

49  
89

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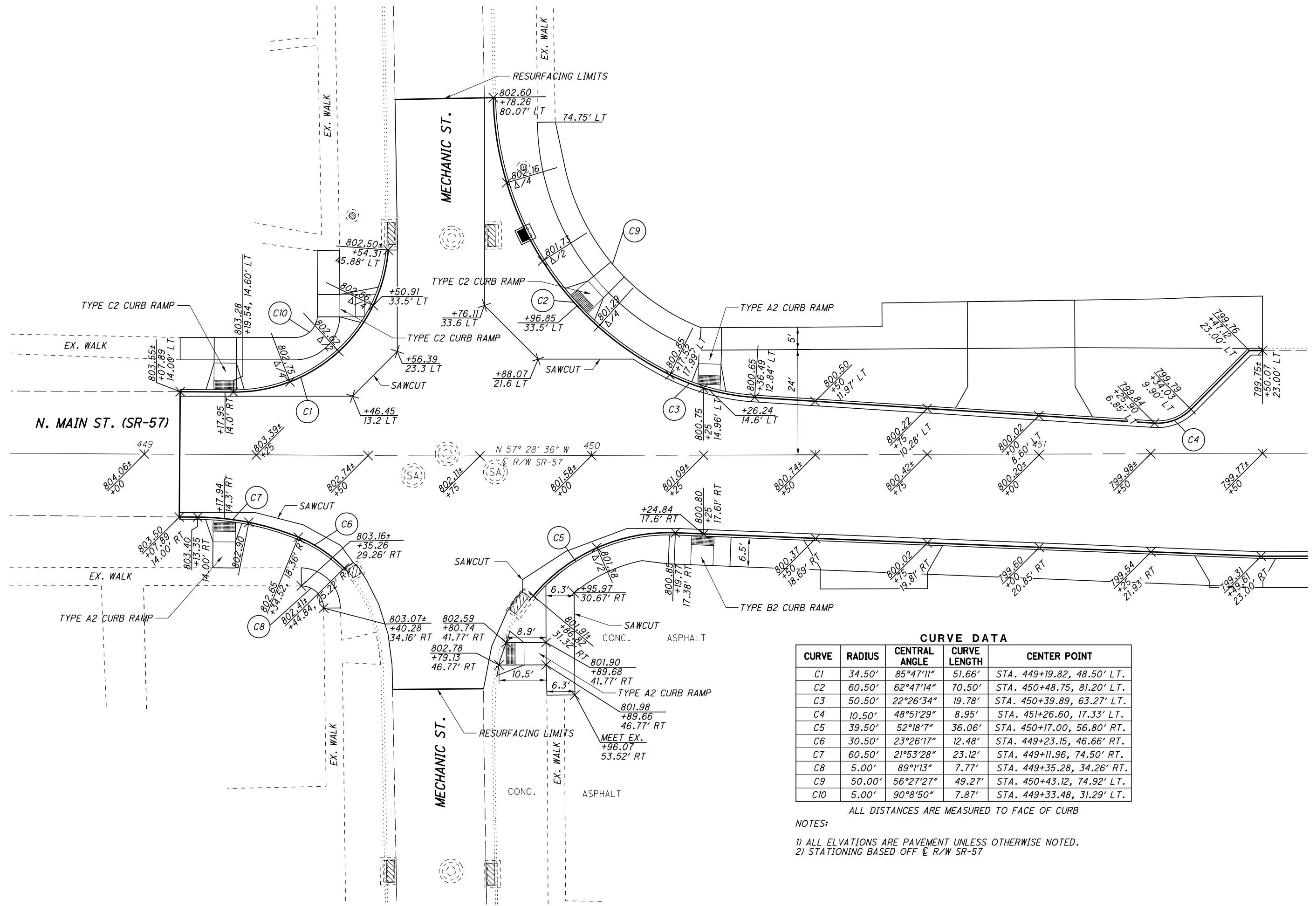


CROSS SECTIONS PARSONS RD.  
STA. 55+16.00 TO STA. 56+00.00

LOR-57-8.52  
ENVISION PHASE 1

50  
89

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**CURVE DATA**

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
C1	34.50'	85°47'11"	51.66'	STA. 449+19.82, 48.50' LT.
C2	60.50'	62°47'14"	70.50'	STA. 450+48.75, 81.20' LT.
C3	50.50'	22°26'34"	19.78'	STA. 450+39.89, 63.27' LT.
C4	10.50'	48°51'29"	8.95'	STA. 451+26.60, 17.33' LT.
C5	39.50'	52°18'7"	36.06'	STA. 450+17.00, 56.80' RT.
C6	30.50'	23°26'17"	12.48'	STA. 449+23.15, 46.66' RT.
C7	60.50'	21°53'28"	23.12'	STA. 449+11.96, 74.50' RT.
C8	5.00'	89°1'13"	7.77'	STA. 449+35.28, 34.26' RT.
C9	50.00'	56°27'27"	49.27'	STA. 450+43.12, 74.92' LT.
C10	5.00'	90°8'50"	7.87'	STA. 449+33.48, 31.29' LT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

**NOTES:**

- 1) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.
- 2) STATIONING BASED OFF  $\phi$  R/W SR-57

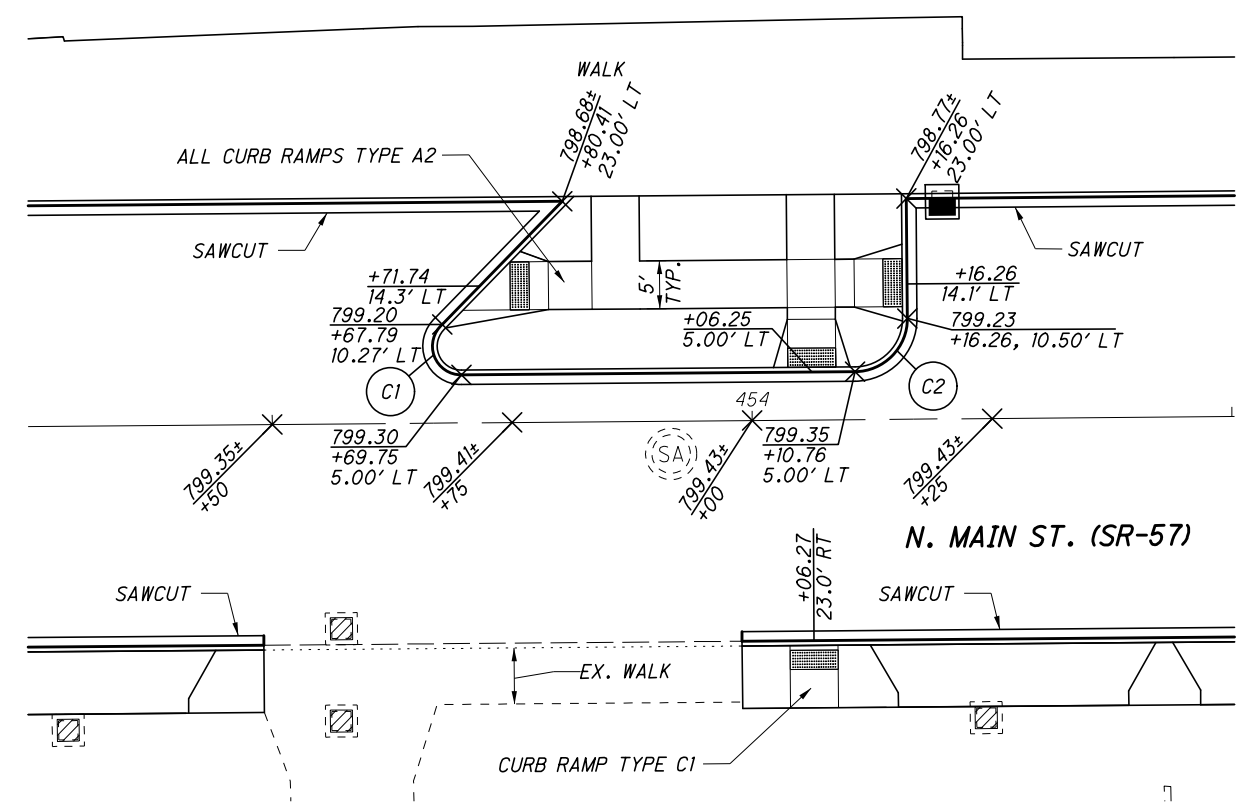
CALCULATED  
HAC  
CHECKED  
JTY

HORIZONTAL SCALE IN FEET

**INTERSECTION DETAIL  
MECHANIC ST. & MAIN ST. (SR-57)**

**LOR-57-8.52  
ENVISION PHASE 1**





**CURVE DATA**

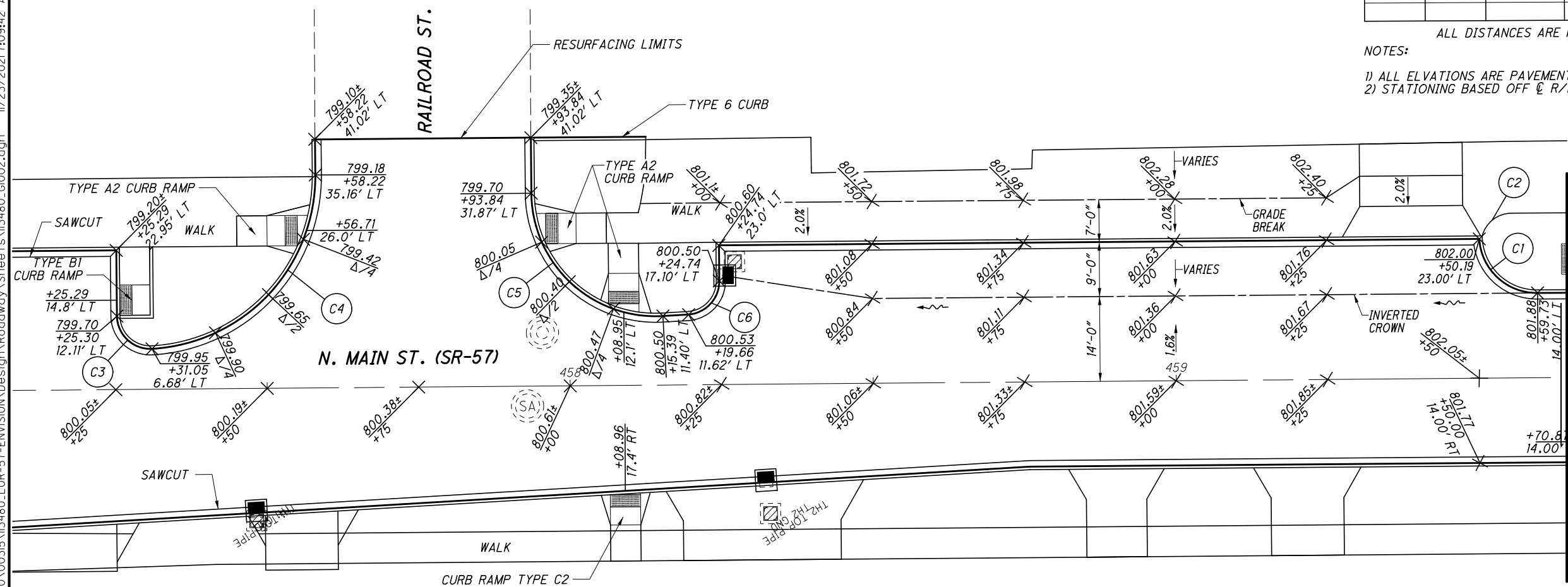
CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
C1	3.00'	139° 58' 16"	7.33'	STA. 453+69.75, 8.00' LT.
C2	5.50'	92° 39' 43"	8.64'	STA. 454+10.76, 10.50' LT.
C3	5.50'	94° 39' 8"	8.89'	STA. 457+30.79, 12.19' LT.
C4	28.50'	87° 20' 17"	43.44'	STA. 457+29.72, 35.16' LT.
C5	20.50'	92° 56' 39"	33.25'	STA. 458+14.34, 31.87' LT.
C6	5.50'	85° 49' 42"	8.24'	STA. 458+19.24, 17.10' LT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

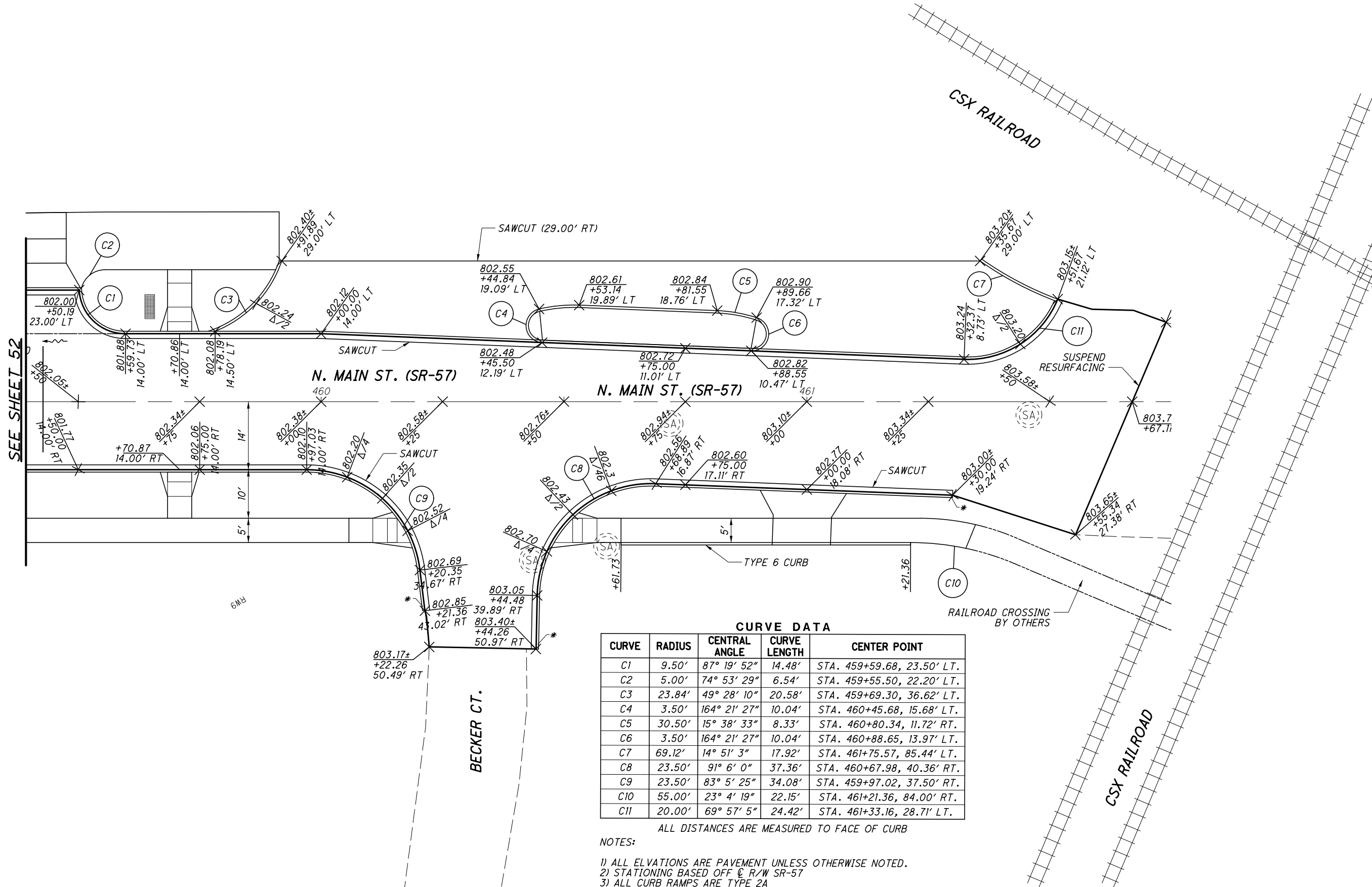
NOTES:

- 1) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.
- 2) STATIONING BASED OFF  $\frac{1}{4}$  R/W SR-57

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SEE SHEET 53



SEE SHEET 52

**CURVE DATA**

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
C1	9.50'	87° 19' 52"	14.48'	STA. 459+59.68, 23.50' LT.
C2	5.00'	74° 53' 29"	6.54'	STA. 459+55.50, 22.20' LT.
C3	23.84'	49° 28' 10"	20.58'	STA. 459+69.30, 36.62' LT.
C4	3.50'	164° 21' 27"	10.04'	STA. 460+45.68, 15.68' LT.
C5	30.50'	15° 38' 33"	8.33'	STA. 460+80.34, 11.72' RT.
C6	3.50'	164° 21' 27"	10.04'	STA. 460+88.65, 13.97' LT.
C7	69.12'	14° 51' 3"	17.92'	STA. 461+75.57, 85.44' LT.
C8	23.50'	91° 6' 0"	37.36'	STA. 460+67.98, 40.36' RT.
C9	23.50'	83° 5' 25"	34.08'	STA. 459+97.02, 37.50' RT.
C10	55.00'	23° 4' 19"	22.15'	STA. 461+21.36, 84.00' RT.
C11	20.00'	69° 57' 5"	24.42'	STA. 461+33.16, 28.71' LT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

- NOTES:
- 1) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.
  - 2) STATIONING BASED OFF C/R/W SR-57
  - 3) ALL CURB RAMPS ARE TYPE 2A
  - \* - TAPER CURB HEIGHT FROM 6" TO 0" OVER 5'

INTERSECTION DETAIL  
BECKER CT. & MAIN ST. (SR-57)

0 5 10 20  
HORIZONTAL SCALE IN FEET

CALCULATED  
HAC  
CHECKED  
JTY

LOR-57-8.52  
ENVISION PHASE 1

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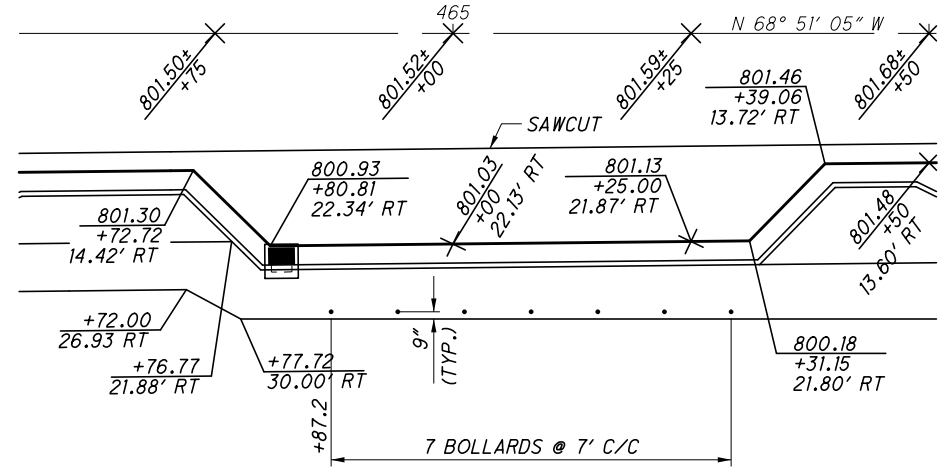
**CURVE DATA**

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
C1	214.00'	10° 51' 36"	37.45'	STA. 470+41.18, 200.01' RT.
C2	38.00'	62° 22' 14"	41.37'	STA. 469+17.10, 48.87' LT.
C3	176.00'	20° 16' 24"	62.27'	STA. 471+03.29, 46.09' LT.
C4	136.00'	96° 44' 16"	12.34'	STA. 461+99.24, 77.36' LT.
C5	43.00'	5° 11' 58"	72.60'	STA. 461+99.24, 139.61' LT.
C6	184.00'	33° 48' 29"	108.57'	STA. 461+99.24, 85.70' RT.
C7	36.50'	104° 41' 14"	66.69'	STA. 470+11.18, 61.05' LT.
C8	145.00'	45° 1' 12"	113.93'	STA. 470+28.76, 169.51' RT.

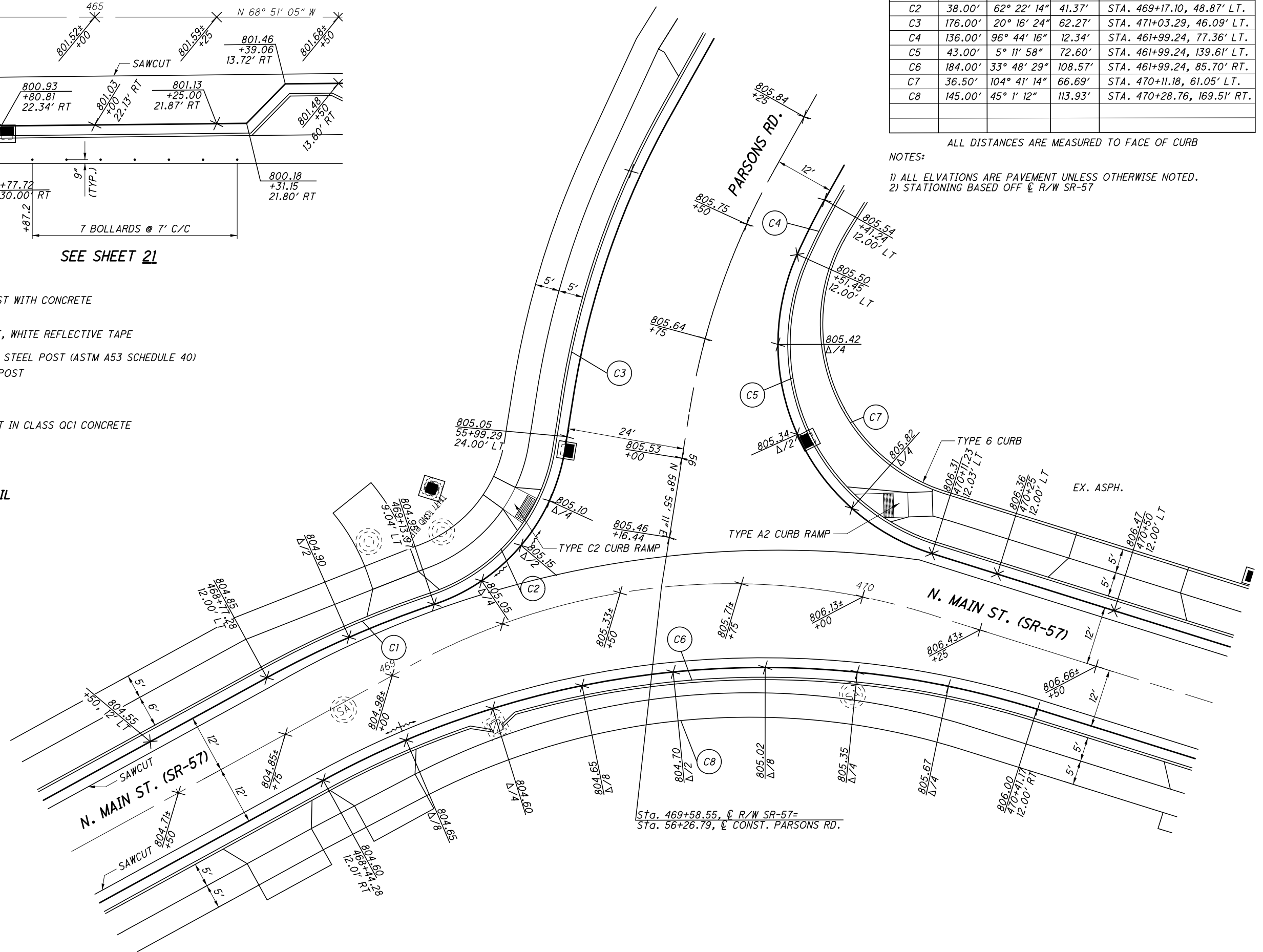
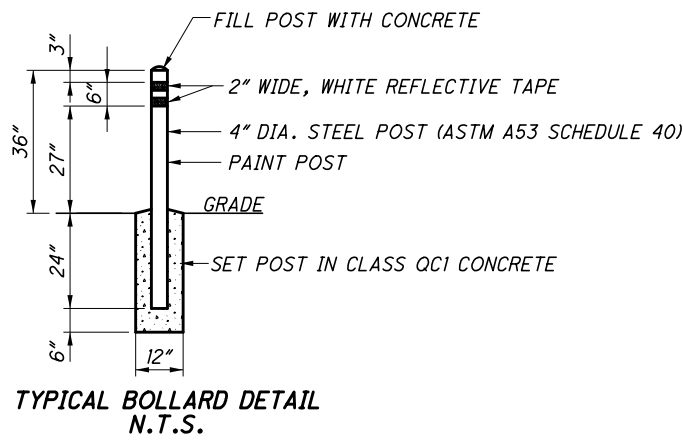
ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

- 1) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.
- 2) STATIONING BASED OFF  $\frac{1}{2}$  R/W SR-57



SEE SHEET 21



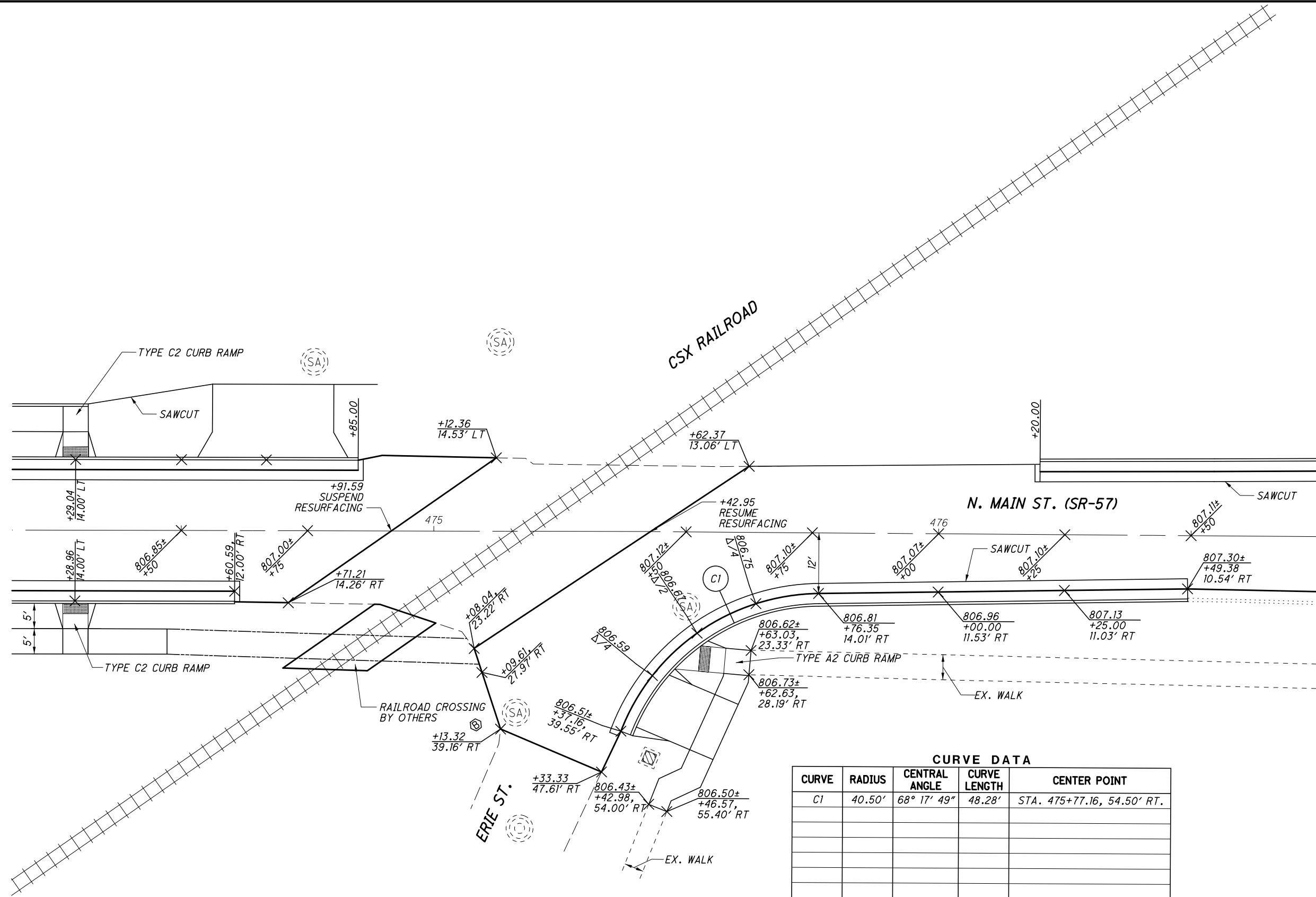
Sta. 469+58.55,  $\frac{1}{2}$  R/W SR-57=  
 Sta. 56+26.79,  $\frac{1}{2}$  CONST. PARSONS RD.



**INTERSECTION DETAIL  
 PARSONS RD. & MAIN ST. (SR-57)**

**LOR-57-8.52  
 ENVISION PHASE 1**

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**CURVE DATA**

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
C1	40.50'	68° 17' 49"	48.28'	STA. 475+77.16, 54.50' RT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.

2) STATIONING BASED OFF  $\phi$  R/W SR-57

INTERSECTION DETAIL

CSX RAILROAD & MAIN ST. (SR-57)

0 5 10 20  
HORIZONTAL SCALE IN FEET

CALCULATED  
HAC  
CHECKED  
JTY

LOR-57-8.52

ENVISION PHASE 1

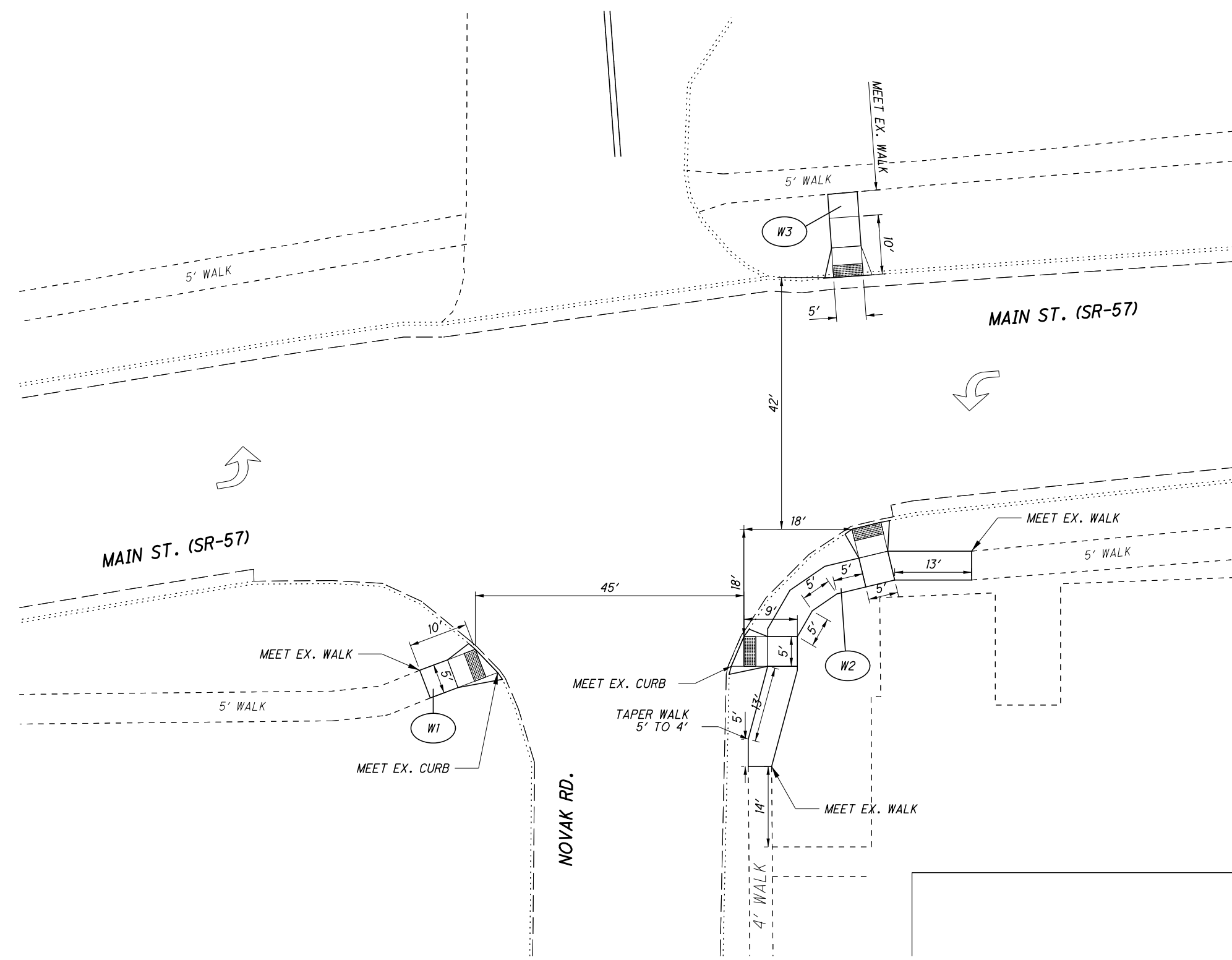
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SEE SHEET 72 FOR TRAFFIC CONTROL PLAN

NOTE: ALL CURB RAMPS SHALL BE CONSTRUCTED ACCORDING TO SCD BP-7.1



CALCULATED	HAC	CHECKED	JTY

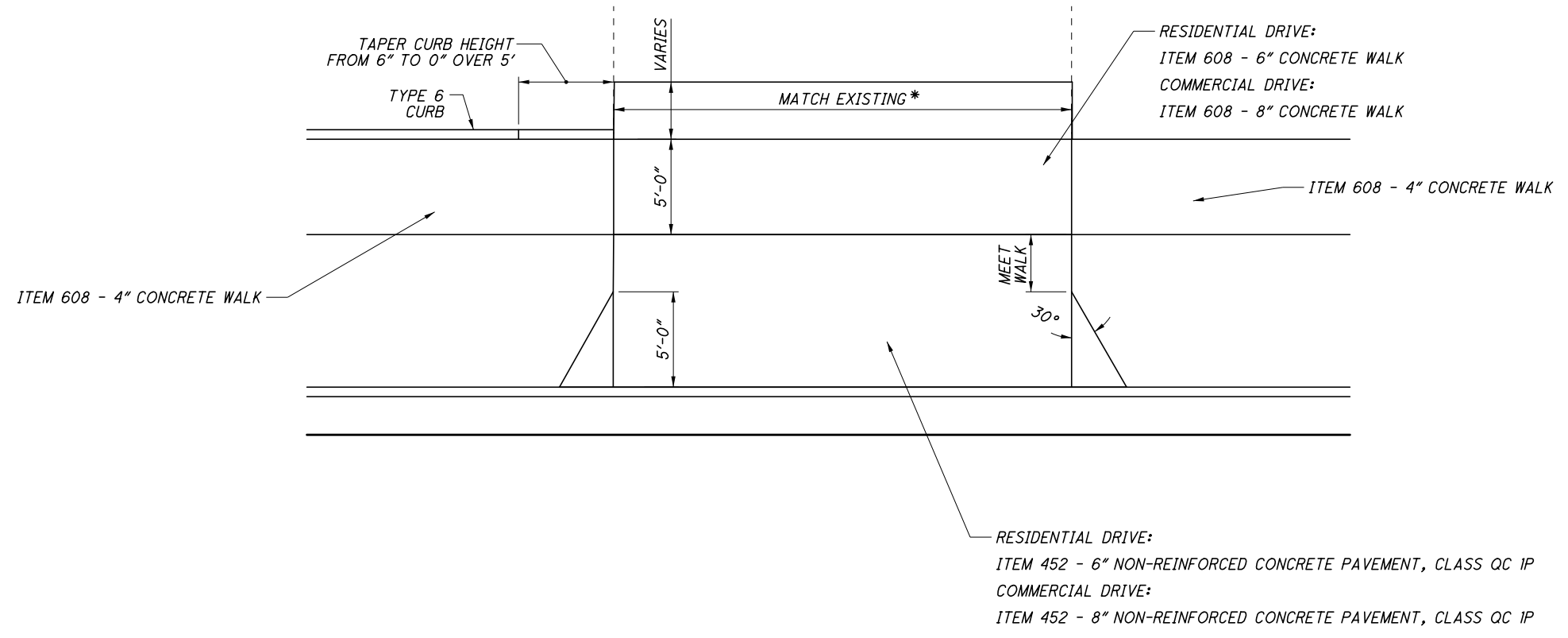
0 5 10 20  
HORIZONTAL SCALE IN FEET

**CURB RAMP PLAN SHEET**  
**NOVAK RD. AND MAIN ST. (SR-57)**

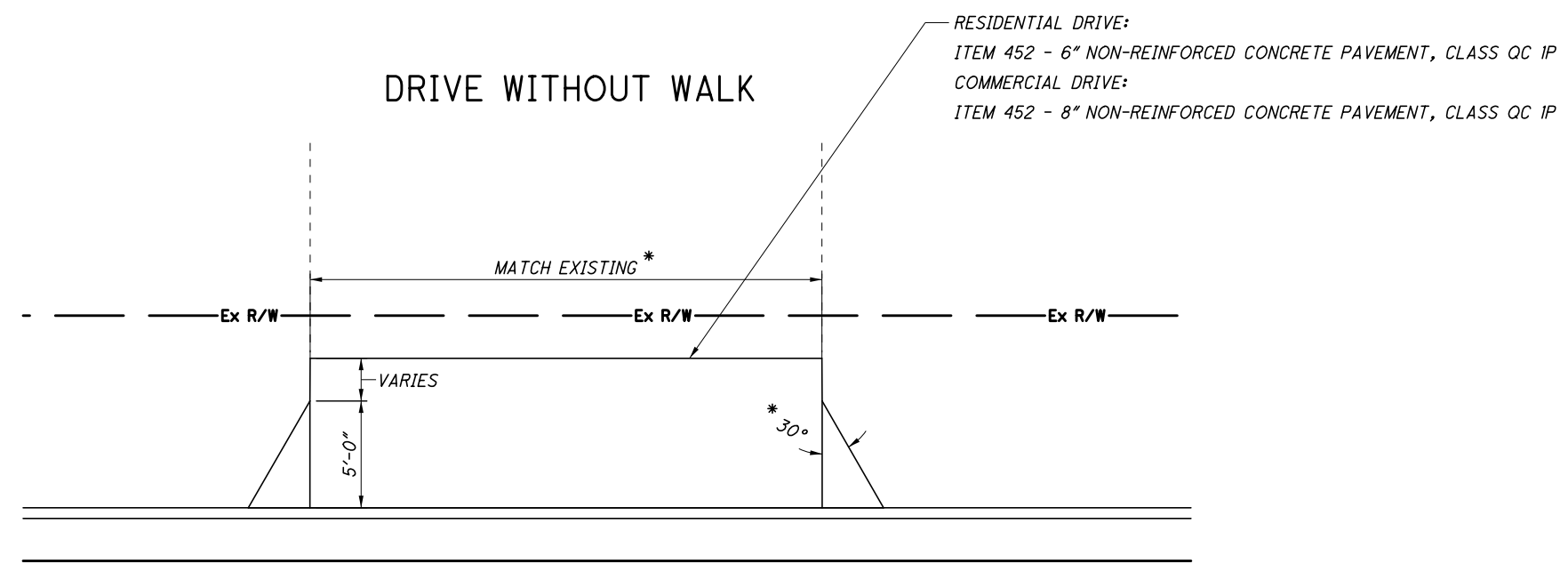
**LOR-57-8.52**  
**ENVISION PHASE 1**

\* EXCEPT AS DIRECTED BY ENGINEER

### DRIVE WITH WALK



### DRIVE WITHOUT WALK



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**DRIVES (DR)**

REF. NO.	SHEET NO.	STATION		SIDE	202		452				608			
					PAVEMENT REMOVED	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS OC IP	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS OC IP		6" CONCRETE WALK		8" CONCRETE WALK			
							SY	SY	SY	SF	SF			
		01/MPO	01/MPO		02/SAE	01/MPO	02/SAE	01/MPO	02/SAE	01/MPO	02/SAE			
FROM	TO / AT													
DR1	18		450+63	RT	7					10				192
DR2	18		450+96	LT						42				253
DR3	18		451+44	RT							106			
DR4	18		452+02	RT							87			
DR5	18		452+26	RT										115
DR1	19		453+29	RT										193
DR2	19		454+27	RT										183
DR3	19		454+53	RT										99
DR4	19		456+06	RT										80
DR5	19		457+10	RT	24					4				198
DR6	19		457+56	RT						7				62
DR1	20		458+32	RT						25				130
DR2	20		458+90	RT			13				50			
DR3	20		459+22	RT			15				60			
DR4	20		459+39	LT						23				85
DR5	20	459+78	461+51	LT	95					264				
DR6	20		461+00	RT	6					11	60			
DR1	21		464+00	RT				15						100
DR2	21		464+35	LT				34						150
DR3	21		465+38	LT				33						150
DR4	21		466+58	RT				18						120
DR5	21		466+72	LT		16					55			
DR6	21		466+93	LT	32	17					60			
DR7	21		466+95	RT		19					75			
DR8	21		467+53	RT	28									
DR9	21		467+72	LT		10					53			
DR10	21		467+89	LT		11					45			
DR1	22		468+63	RT		17					75			
DR2	22		468+88	RT		15					70			
DR3	22		469+07	LT		24					50			
DR4	22		470+88	RT		24					109			
DR5	22		470+50	LT				18						120
DR6	22 & 23		472+07	LT				18						120
DR1	23		473+98	LT				18						120
DR2	23		474+68	LT				42						
DR3	23		10+31	LT			17				60			
DR1	24		477+48	LT				28						
DR1	47		53+96	RT				44						150
DR2	47		54+59	LT				25						
DR3	47		55+15	RT				19						131
<b>TOTALS FOR SPLITS</b>					<b>193</b>	<b>168</b>	<b>28</b>	<b>312</b>	<b>386</b>	<b>363</b>	<b>652</b>	<b>1590</b>	<b>1161</b>	
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>					<b>193</b>	<b>196</b>		<b>698</b>		<b>1015</b>		<b>2751</b>		

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**DRIVE SUBSUMMARY**

**LOR-57-8.52  
ENVISION PHASE 1**

**630 SIGNING MISC.: SOLAR-POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY**

THIS WORK SHALL CONSIST OF FURNISHING AND INSTALLING A SOLAR POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY. THE FLASHING UNIT SHALL BE SOLAR POWERED, PEDESTRIAN ACTIVATED, AND 2-SIDED WITH TWO LED ARRAY BASED YELLOW INDICATIONS ON EACH SIDE. MULTIPLE UNITS SHALL BE WIRELESSLY CONTROLLED AND SYNCHRONIZED. THE UNIT SHALL BE COMPLIANT WITH THE MOST CURRENT OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD) AND FHWA INTERIM APPROVAL FOR RRFBs (IA-21).

**GENERAL REQUIREMENTS -**

EACH RRFB SHALL CONSIST OF TWO RAPIDLY FLASHED RECTANGULAR-SHAPED YELLOW INDICATIONS HAVING LED ARRAY BASED LIGHT SOURCE.

EACH RRFB SHALL BE A COMPLETE ASSEMBLY, CONSISTING OF BUT NOT LIMITED TO, SIGNAGE, SIGN MOUNTING HARDWARE, INDICATIONS AND ELECTRICAL COMPONENTS (WIRING, SOLID-STATE CIRCUIT BOARDS, ETC.).

EACH RRFB SHALL CONTAIN A PEDESTRIAN INDICATION LIGHT VISIBLE BY THE PEDESTRIAN IN THE DIRECTION OF TRAVEL.

**FUNCTIONAL REQUIREMENTS -**

EACH RRFB SHALL UTILIZE SOLAR POWER.

EACH RRFB SHALL BE ACTIVATED BY ADA COMPLIANT PUSHBUTTONS.

THE RRFB SHALL BE NORMALLY DARK, SHALL INITIATE OPERATION ONLY UPON PEDESTRIAN ACTUATION, AND SHALL CEASE OPERATION AFTER A PREDETERMINED TIME LIMIT (BASED ON OMUTCD PROCEDURES).

EACH REMOTE RRFB SHALL BE WIRELESSLY ACTIVATED.

ALL RRFB LIGHT INDICATIONS SHALL BE WIRELESSLY SYNCHRONIZED (ALL LIGHTS WILL TURN ON WITHIN 120 MSEC AND REMAIN SYNCHRONIZED THROUGHOUT THE DURATION OF THE FLASHING CYCLE).

THE UNIT SHALL BE CAPABLE OF RUNNING 14 DAYS WITHOUT SUNLIGHT.

**MATERIALS -**

FURNISH A COMPLETE ASSEMBLY, CONSISTING OF BUT NOT LIMITED TO, SIGNAGE, SIGN MOUNTING HARDWARE, INDICATIONS, AND ELECTRICAL COMPONENTS (WIRING, SOLID-STATE CIRCUIT BOARDS, ETC.). THE RRFB ASSEMBLY INCLUDES THE FOLLOWING ITEMS:

**1. RRFB INDICATIONS**

- A. EACH RRFB INDICATION LENS SHALL BE A MINIMUM SIZE OF APPROXIMATELY 5" WIDE X 2" HIGH.
- B. THE RRFB INDICATIONS SHALL BE ALIGNED HORIZONTALLY, WITH THE LONGER DIMENSION OF THE INDICATION HORIZONTAL. THERE SHALL BE TWO INDICATIONS ON THE FRONT AND TWO INDICATIONS ON THE BACK.
- C. EACH RRFB SHALL BE SUPPLIED WITH ALL REQUIRED HARDWARE TO INSTALL ASSEMBLY. ALL EXPOSED HARDWARE SHALL BE ANTI-VANDAL.
- D. EACH RRFB SHALL BE LOCATED BETWEEN THE BOTTOM OF THE CROSSING WARNING SIGN AND THE TOP OF THE SUPPLEMENTAL DOWNWARD DIAGONAL ARROW PLAQUE.
- E. THE LIGHT INTENSITY OF THE YELLOW INDICATIONS SHALL MEET THE MINIMUM CLASS 1 SPECIFICATIONS OF SOCIETY OF AUTOMOTIVE ENGINEERS (SAE) STANDARD J595 (DIRECTIONAL FLASHING OPTICAL WARNING DEVICES FOR AUTHORIZED EMERGENCY, MAINTENANCE, AND SERVICE VEHICLES) DATED JANUARY, 2005.
- F. TO MINIMIZE EXCESSIVE GLARE DURING NIGHTTIME CONDITIONS, AN AUTOMATIC SIGNAL DIMMING DEVICE SHALL BE USED TO REDUCE THE BRILLIANCE OF THE RRFB INDICATIONS.
- G. A SMALL LED CONFIRMATION LIGHT DIRECTED AT AND VISIBLE TO PEDESTRIANS IN THE CROSSWALK SHALL BE INSTALLED INTEGRAL TO THE RRFB OR PUSHBUTTON TO GIVE CONFIRMATION THAT THE RRFB IS IN OPERATION.
- H. THE PEDESTRIAN CONFIRMATION LIGHT SHALL BE NO SMALLER THAN 2" IN DIAMETER AND CONTAIN A MINIMUM ILLUMINANCE OF 100 LUX MEASURED AT 30 CM.

**2. SIGNS**

- A. ALL SIGN ASSEMBLIES SHALL USE ANTI-VANDAL FASTENERS TO MOUNT COMPONENTS TO SIGN AND SIGN TO FIXTURE.
- B. PEDESTRIAN PUSHBUTTONS SIGNS SHALL BE PROVIDED AND INCLUDE THE LEGEND "PUSH BUTTON TO TURN ON WARNING LIGHTS". SIGNS SHOULD BE MOUNTED ADJACENT TO OR INTEGRAL WITH EACH PEDESTRIAN PUSHBUTTON.
- C. TWO SETS OF SIGNS SHALL BE REQUIRED PER UNIT FOR VIEW FROM EACH APPROACH.
- D. ASSURE SIGN MEETS THE REQUIREMENTS OF C&MS 630.

**3. CONTROL CIRCUIT**

- A. THE CONTROL CIRCUIT SHALL HAVE THE CAPABILITY OF INDEPENDENTLY FLASHING UP TO TWO INDEPENDENT OUTPUTS. THE LED LIGHT OUTPUTS AND FLASH PATTERN SHALL BE COMPLETELY PROGRAMMABLE.
- B. THE CONTROL CIRCUIT SHALL BE SEALED WATERTIGHT TO ELIMINATE DIRT CONTAMINATION AND ALLOW FOR SAFE HANDLING IN ALL WEATHER CONDITIONS.
- C. THE LEDS SHALL BE SEALED AGAINST DUST AND MOISTURE INTRUSION AS PER THE REQUIREMENTS OF NEMA STANDARD 250-1991 FOR TYPE 4 ENCLOSURE AND TO PROTECT ALL INTERNAL LED AND ELECTRICAL COMPONENTS.

**4. BATTERY AND SOLAR PANELS**

- A. BATTERY UNIT SHALL BE A 12VDC, 35 AHR MINIMUM, SEALED GEL OR AGM LEAD ACID BATTERY. BATTERIES SHALL HAVE A WRITTEN TWO YEAR FULL REPLACEMENT WARRANTY.
- B. THE SOLAR PANEL SHALL PROVIDE A MINIMUM OF 40 WATTS PEAK TOTAL OUTPUT.
- C. THE SOLAR PANEL SHALL BE MOUNTED TO AN ALUMINUM PLATE AND BRACKET AT AN ANGLE OF 45 DEGREES - 60 DEGREES TO PROVIDE MAXIMUM OUTPUT.
- D. ALL FASTENERS USED SHALL BE ANTI-VANDAL.

**5. WIRELESS RADIO**

- A. RADIO CONTROL SHALL OPERATE ON A 900 MHZ FREQUENCY HOPPING SPREAD SPECTRUM NETWORK, WI-FI OR APPROVED EQUAL.
- B. RADIO SHALL INTEGRATE COMMUNICATION OF RRFB CONTROL CIRCUIT TO ACTIVATE SIGN FROM PUSHBUTTON INPUT.
- C. THE RADIO SHALL BE SYNCHRONIZED SO ALL OF THE REMOTE RRFB LIGHT INDICATIONS WILL TURN ON WITHIN 120 MSEC OF EACH OTHER AND REMAIN SYNCHRONIZED THROUGH-OUT THE DURATION OF THE FLASHING CYCLE.

**6. PUSHBUTTON**

- A. THE PUSHBUTTON SHALL BE CAPABLE OF CONTINUOUS OPERATION OVER A TEMPERATURE RANGE OF -30 DEGREES F TO +165 DEGREES F.
  - B. PUSHBUTTON SHALL BE ADA COMPLIANT.
7. PEDESTAL SHAFT AND BASE - MOUNT ON A STANDARD 4.5-INCH OD ALUMINUM PEDESTAL POLE WITH BREAKAWAY BASE. A 14 FOOT POLE SHALL BE PROVIDED AND FIELD ADJUSTED AND CAPPED TO MAINTAIN THE PROPER SIGN MOUNTING HEIGHTS, UNLESS SPECIFIED OTHERWISE IN THE PLANS. POLE AND BASE MANUFACTURER SHALL BE LISTED ON ODOT'S QUALIFIED PRODUCTS LIST.

**CONSTRUCTION -**

THE RRFB SHALL BE ASSEMBLED AND CONSTRUCTED BY THE CONTRACTOR AS SHOWN AND SPECIFIED ON THE PLANS.

**WARRANTY -**

WARRANTY SHALL BE TWO YEARS FROM THE DATE OF FINAL ACCEPTANCE.

**MEASUREMENT -**

THE DEPARTMENT WILL MEASURE THE ITEM COMPLETE IN PLACE, INCLUDING ALL MATERIALS, TESTING, LABOR AND SOFTWARE FOR A FULLY FUNCTIONAL UNIT.

**PAYMENT -**

PAYMENT WILL BE AT THE CONTRACT UNIT PRICE PER EACH FOR ITEM 630 "SIGNING MISC.: SOLAR POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY".

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TRAFFIC CONTROL NOTES

LOR-57-8.52  
ENVISION PHASE 1

CALCULATED  
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**MARKINGS**

REF. NO.	SHEET NO.	STATION		SIDE	644																
					EDGE LINE, 4"	LANE LINE, 4"	CENTER LINE		STOP LINE		CROSSWALK LINE		TRANSVERSE/DIAGONAL LINE		RAILROAD SYMBOL MARKING	PARKING LOT STALL MARKING	LANE ARROW	DOTTED LINE, 4"	HANDICAP SYMBOL MARKING	YIELD LINE	
					FT	FT	FT		FT		FT		FT		EACH	FT	EACH	FT	EACH	FT	
		FROM	TO / AT			01/MPO	04/S>2	02/SAE	04/S>2	02/SAE	04/S>2	01/MPO	04/S>2	04/S>2	04/S>2	02/SAE	02/SAE	04/S>2	02/SAE		
CL1	64-70	450+29	477+83	LT & RT				2754													
CW1	64	449+15	449+21	LT & RT							42										
CW2	64	449+53	449+95	LT							66										
CW3	64	449+56	449+77	RT							36										
SL1	64	449+53	449+68	LT					14												
SL2	64	449+66	449+76	RT					10												
CW4	64	450+22	450+29	LT & RT							48										
TR1	64	451+30	451+52	LT									31								
PS1	64	451+30	452+16	LT											183						
TR2	64	451+99	452+16	LT									52								
TR3	64	452+55	452+72	LT									51								
PS2	64-65	452+55	453+10	LT											113						
PS1	65	453+06	453+68	LT											133						
HC1	65		453+55	LT														1			
TR1	65	453+56	453+80	LT										43							
CW1	65	454+03	454+09	LT & RT							42										
TR2	65	454+14	454+41	LT										100							
PS2	65	454+14	457+25	LT											579						
HC2	65		456+36	LT															1		
HC3	65		456+90	LT															1		
TR3	65	456+91	457+25	LT										153							
SL1	65	457+58	457+76	LT					18												
CW2	65	457+59	457+93	LT							54										
CW1	66	458+06	458+12	LT & RT							42										
TR1	66	458+25	458+33	LT										27							
PS1	66	458+25	459+29	LT											162						
TR2	66	459+21	459+29	LT										27							
CW2	66	459+68	459+74	LT & RT							42										
CW3	66	460+20	460+46	RT							42										
SL1	66	460+33	460+45	RT					12												
RR1	66	460+47	460+99	RT										1							
SL2	66	461+47	461+48	RT					19												
CW4	66	462+73	462+95	RT							36										
SL5	66	462+86	462+97	RT					12												
SL1	67		463+11	LT & RT					12												
CW1	67	463+30	463+36	LT & RT							36										
RR1	67	463+85	464+36	LT & RT										1							
YL1	67		466+02	RT																12	
CW2	67	466+22	466+28	LT & RT							36										
YL2	67		466+47	LT																12	
RR1	69	473+34	473+85	RT										1							
CW1	69	474+26	474+32	LT & RT							36										
SL1	69		474+59	RT					12												
CW2	69	475+10	475+48	RT							60										
SL2	69	475+29	475+39	RT					11												
SL3	69		475+99	LT					14												
RR2	69-70	476+65	477+16	LT										1							
<b>SUBTOTALS FOR SPLITS CARRIED TO SHEET 61</b>						0	0	0	2754	0	134	0	618	0	484	4	1170	0	0	3	24

CALCULATED  
HAC  
CHECKED  
JTY

**TRAFFIC CONTROL SUBSUMMARIES**

**LOR-57-8.52  
ENVISION PHASE 1**

I:\217000\00315\13480\_LOR-57-ENVISION\Design\Roadway\Sheets\13480\_TS002.dgn 11/23/2021 10:04 AM HCr-omley

**MARKINGS**

REF. NO.	SHEET NO.	STATION		SIDE	644																						
		FROM	TO / AT		EDGE LINE, 4"	LANE LINE, 4"	CENTER LINE		STOP LINE		CROSSWALK LINE		TRANSVERSE/DIAGONAL LINE	RAILROAD SYMBOL MARKING	PARKING LOT STALL MARKING	LANE ARROW	DOTTED LINE, 4"	HANDICAP SYMBOL MARKING	YIELD LINE								
					FT 01/MPO	FT 01/MPO	FT 01/MPO	FT 04/S>2	FT 02/SAE	FT 04/S>2	FT 02/SAE	FT 04/S>2	FT 01/MPO	FT 04/S>2	EACH 04//S>2	FT 04/S>2	EACH 02/SAE	FT 02/SAE	EACH 04/S>2	FT 02/SAE							
YL1	70		479+66	RT																12							
CW1	70	479+86	479+92	LT & RT								54															
YL2	70		480+02	LT																12							
CL1	71	53+43	56+03	-			260																				
DL1	71	54+50	55+00	RT														50									
LL1	71	55+00	56+03	RT		108																					
AR1	71	55+88	55+96	RT														1									
AR2	71	55+88	55+95	RT														1									
SL1	71		56+03	RT					24																		
CW1	71	56+02	56+18	LT & RT								90															
TR1	72		NOVAK											16													
CW1	72		NOVAK									77															
EL1	72		NOVAK		62																						
SL1	72		NOVAK						21																		
AR1	72		NOVAK															1									
LL1	72		NOVAK			33												1									
AR2	72		NOVAK																								
CL1	72		NOVAK				33																				
DL1	72		NOVAK																74								
DL2	72		NOVAK																60								
DL3	72		NOVAK																60								
DL4	72		NOVAK																85								
CW2	72		NOVAK									54															
CW3	72		NOVAK									60															
SL2	72		NOVAK						21																		
AR3	72		NOVAK																1								
AR4	72		NOVAK																1								
SUBTOTALS FOR SPLITS FROM THIS SHEET					62	FT	141	FT	293	FT	0	FT	66	0	281	54	16	0	0	0	6	329	0	24			
SUBTOTALS FOR SPLITS FROM SHEET 60					0	FT	0	FT	0	FT	2754	FT	0	134	0	618	0	484	4	1170	0	0	3	24			
<b>TOTALS FOR SPLITS</b>					<b>0.01</b>	<b>MILE</b>	<b>0.03</b>	<b>MILE</b>	<b>0.06</b>	<b>MILE</b>	<b>0.52</b>	<b>MILE</b>	<b>66</b>	<b>134</b>	<b>281</b>	<b>672</b>	<b>16</b>	<b>484</b>	<b>4</b>	<b>1170</b>	<b>6</b>	<b>329</b>	<b>3</b>	<b>48</b>			
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>					<b>0.01</b>		<b>0.03</b>		<b>0.58</b>		<b>200</b>		<b>953</b>		<b>500</b>		<b>4</b>		<b>1170</b>		<b>6</b>		<b>329</b>		<b>3</b>		<b>48</b>

CALCULATED  
HAC  
CHECKED  
JTY

**TRAFFIC CONTROL SUBSUMMARIES**

**LOR-57-8.52**  
**ENVISION PHASE 1**

**SIGNS**

SHEET NO.	REFERENCE NO.	LOCATION	STATION		SIDE	CODE	SIZE			630						202
			FROM	TO / AT			IN	X	IN	ONE WAY SUPPORT, NO. 3 POST	SIGN, FLAT SHEET	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	SIGNING, MISC.: SOLAR-POWERED RECTANGULAR FLASHING BEACON (RRFB) SIGN ASSEMBLY	REMOVAL MISC.: COMMERCIAL SIGN AND FOUNDATION REMOVED	
										02/SAE	02/SAE	02/SAE	02/SAE	02/SAE	02/SAE	
64	S1	SR-57		448+18	RT	W11-2-30	30	x	30	14.0	6.3					
						W16-9P-24	24	x	12		2.0					
64	S2	SR-57	448+37	448+83	RT								1			
64	S3	SR-57	448+67	449+12	RT								1			
64	S4	SR-57	448+77	449+22	RT								1			
64	S5	SR-57		449+13	RT									1		
64	S6	SR-57		449+25	LT									1		
64	S7	MECHANIC		449+50	LT	R1-1-30	30	x	30	13.0	6.3					
64	S8	MECHANIC		449+80	RT	R1-1-30	30	x	30	13.0	6.3					
64	S9	SR-57	450+03	450+69	LT								1			
64	S10	SR-57		450+32	LT	W11-2-30	30	x	30	14.0	6.3					
						W16-7PL-24	24	x	12		2.0					
65	S1	SR-57		454+07	RT							1				
65	S2	SR-57		454+01	RT	W11-2-30	30	x	30	14.0	6.3					
						W16-7PL-24	24	x	12		2.0					
65	S3	SR-57		454+12	LT	W11-2-30	30	x	30	14.0	6.3					
						W16-7PL-24	24	x	12		2.0					
65	S4	SR-57	457+06	457+39	LT								1			
66	S1	SR-57		458+03	RT	W11-2-30	30	x	30	14.0	6.3					
						W16-7PL-24	24	x	12		2.0					
66	S2	SR-57		458+15	LT	W11-2-30	30	x	30	14.0	6.3					
						W16-7PL-24	24	x	12		2.0					
66	S3	SR-57	458+11	459+04	RT								1			
66	S4	SR-57		459+65	RT	W11-2-30	30	x	30	14.0	6.3					
						W16-7PL-24	24	x	12		2.0					
66	S5	SR-57	459+72	459+95	RT								1			
66	S6	SR-57		459+77	LT	W11-2-30	30	x	30	14.0	6.3					
						W16-7PL-24	24	x	12		2.0					
66	S7	SR-57		460+63	RT	W10-1-36	36	x	36	13.5	9.0					
66	S8	SR-57		460+79	LT	W11-2-30	30	x	30	14.0	6.3					
						W16-9P-24	24	x	12		2.0					
66	S9	SR-57		462+32	RT	W11-2-30	30	x	30	14.0	6.3					
						W16-9P-24	24	x	12		2.0					
67	S1	SR-57		463+28	RT	W11-2-30	30	x	30	14.0	6.3					
						W16-7PL-24	24	x	12		2.0					
67	S2	SR-57		463+39	LT	W11-2-30	30	x	30	14.0	6.3					
						W16-7PL-24	24	x	12		2.0					
67	S3	SR-57		464+55	LT	W10-1-36	36	x	36	13.5	9.0					
67	S4	SR-57		464+70	RT	W11-2-30	30	x	30	14.0	6.3					
						W16-9P-24	24	x	12		2.0					
67	S5	SR-57		464+95	LT	W11-2-30	30	x	30	14.0	6.3					
						W16-9P-24	24	x	12		2.0					
67	S6	SR-57		466+02	RT	R1-5-36	36	x	36	13.5	9.0					
67	S7	SR-57		466+20	RT									1		
67	S8	SR-57		466+30	LT									1		
<b>SUBTOTALS CARRIED TO SHEET 63</b>										263	156	1	7	4	0	

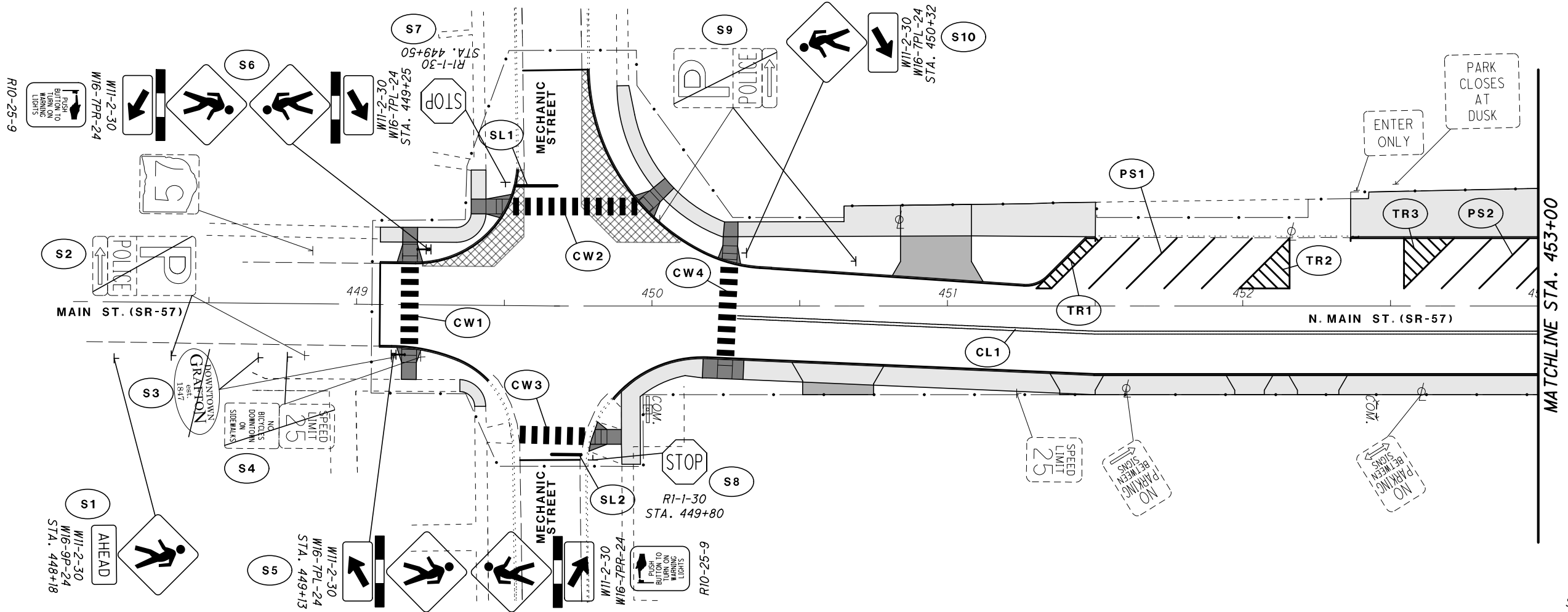
**SIGNS**

SHEET NO.	REFERENCE NO.	LOCATION	STATION		SIDE	CODE	SIZE			630					202	
			FROM	TO / AT			IN	X	IN	ONE WAY SUPPORT, NO. 3 POST	SIGN, FLAT SHEET	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	REMOVAL OF GROUND MOUNTED SIGN AND REEJECTION	SIGNING, MISC.: SOLAR-POWERED RECTANGULAR FLASHING BEACON (RRFB) SIGN ASSEMBLY	REMOVAL MISC.: COMMERCIAL SIGN AND FOUNDATION REMOVED	
										FT 02/SAE	SF 02/SAE	EACH 02/SAE	EACH 02/SAE	EACH 02/SAE	EACH 02/SAE	
67	S9	SR-57	465+96	466+40	LT											
67	S10	SR-57		466+48	LT	R1-5-36	36	x	36	13.5	9.0		1			
67	S11	SR-57	466+78	467+17	RT								1			
67	S12	SR-57		467+53	LT	W11-2-30 W16-9P-24	30 24	x	30 12	14.0 2.0	6.3 2.0					
68	S1	SR-57		471+87	RT								1			
69	S1	SR-57		473+01	RT	W11-2-30 W16-9P-24	30 24	x	30 12	14.0 2.0	6.3 2.0					
69	S2	SR-57		473+36	RT	W10-1-36	36	x	36	13.5	9.0					
69	S3	SR-57		474+23	RT	W11-2-30 W16-7PL-24	30 24	x	30 12	14.0 2.0	6.3 2.0					
69	S4	SR-57		474+35	LT	W11-2-30 W16-7PL-24	30 24	x	30 12	14.0 2.0	6.3 2.0					
69	S5	SR-57		475+12	LT	W11-2-30 W16-9P-24	30 24	x	30 12	14.0 2.0	6.3 2.0					
69	S6	ERIE	475+38	475+64	RT								1			
70	S1	SR-57		477+15	LT	W10-1-36	36	x	36	13.5	9.0					
70	S2	SR-57		478+61	RT	W11-2-36 W16-9P-24	36 24	x	36 12	14.5 2.0	9.0 2.0					
70	S3	SR-57		479+66	RT	R1-5-36	36	x	36	13.5	9.0					
70	S4	SR-57		479+83	RT									1		
70	S5	SR-57		479+95	LT									1		
70	S6	SR-57	479+94	480+15	RT								1			
70	S7	SR-57		480+12	LT	R1-5-36	36	x	36	13.5	9.0					
70	S8	SR-57	480+05	480+25	LT								1			
70	S9	SR-57		481+17	LT	W11-2-36 W16-9P-24	36 24	x	36 12	14.5 2.0	9.0 2.0					
71	S1	PARSONS	55+93	56+03	RT	R1-1-36	36	x	36	13.5	9.0	1				
71	S2	PARSONS	56+06	56+08	RT								1			
71	S3	PARSONS		55+91	LT										1	
72	S1	NOVAK				W11-2-36 W16-9P-24	36 24	x	36 12	14.5 2.0	9.0 2.0					
	S2	NOVAK				R1-1-18	18	x	18	12.0	2.3					
	S3	NOVAK				W11-2-36 W16-7PL-24	36 24	x	36 12	14.5 2.0	9.0 2.0					
	S4	NOVAK				W11-2-36 W16-7PL-24	36 24	x	36 12	14.5 2.0	9.0 2.0					
	S5	NOVAK				W11-2-36 W16-9P-24	36 24	x	36 12	14.5 2.0	9.0 2.0					
SUBTOTALS FROM THIS SHEET										250	164	1	7	2	1	
SUBTOTALS FROM SHEET 62										263	156	1	7	4	0	
<b>TOTALS TO GENERAL SUMMARY:</b>										<b>513</b>	<b>320</b>	<b>2</b>	<b>14</b>	<b>6</b>	<b>1</b>	

CALCULATED  
HAC  
CHECKED  
JTY

**TRAFFIC CONTROL SUBSUMMARIES**

**LOR-57-8.52**  
**ENVISION PHASE 1**



**SIGN LEGEND**

	EXISTING SIGN TO REMAIN
	EXISTING SIGN TO BE RELOCATED
	EXISTING SIGN TO BE REMOVED
	PROPOSED SIGN

**PAVEMENT MARKING LEGEND**

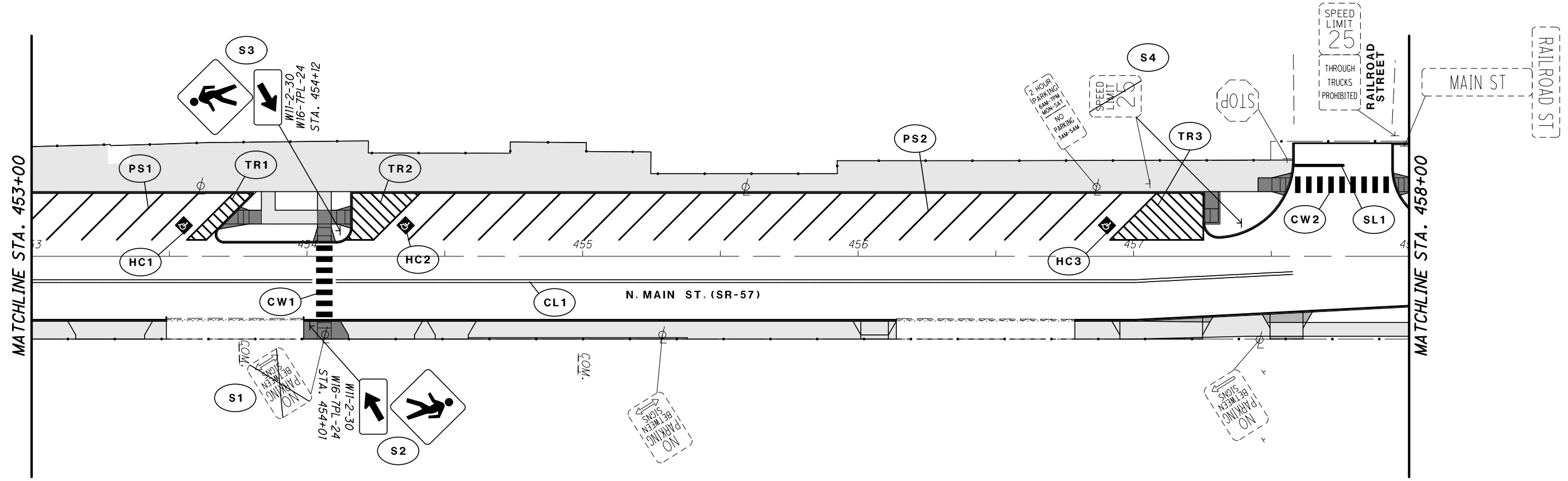
- CH - CHANNELIZING LINE
- CL - CENTER LINE
- CV - CHEVRON LINE
- CW - CROSSWALK
- DL - DOTTED LINE
- ELY - EDGE LINE (YELLOW)
- ELW - EDGE LINE (WHITE)
- ID - ISLAND DELINEATOR
- LL - LANE LINE
- SL - STOP LINE
- PS - PARKING STALL LINE
- TY - TRANSVERSE LINE (YELLOW)
- YL - YIELD LINE

CALCULATED HAC CHECKED JTY

0 20 40  
HORIZONTAL SCALE IN FEET

**TRAFFIC CONTROL - N. MAIN ST. (SR-57)  
STA. 448+50 TO STA. 453+00**

**LOR-57-8.52  
ENVISION PHASE 1**



**PAVEMENT MARKING LEGEND**

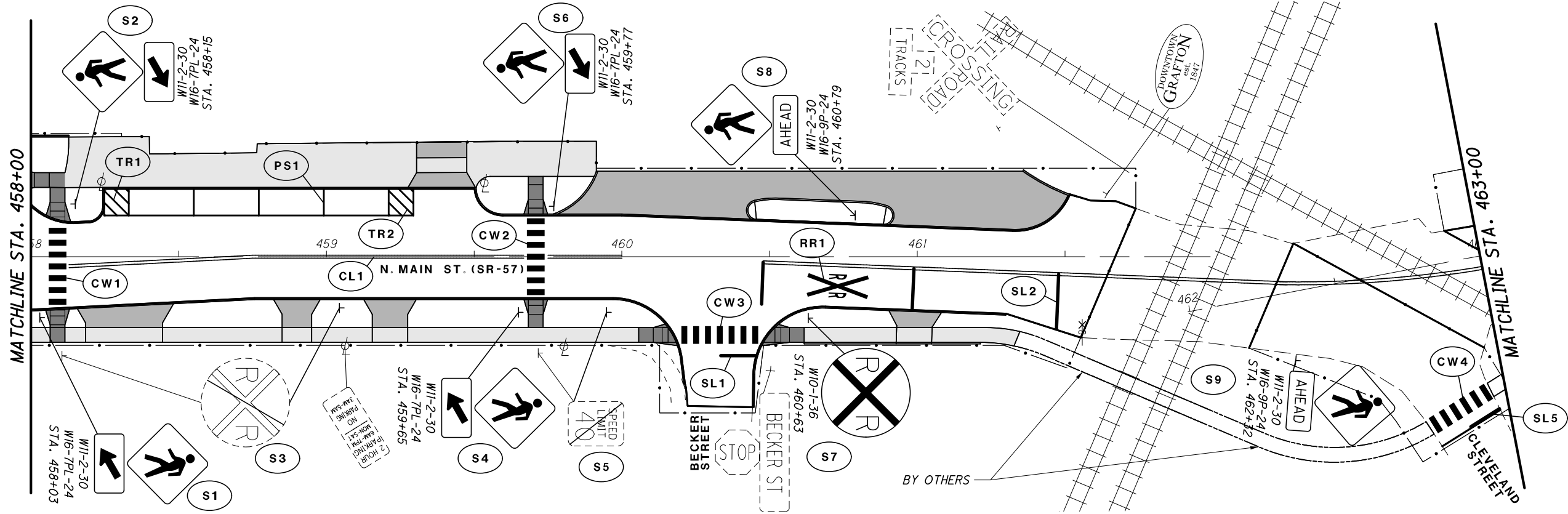
- CH - CHANNELIZING LINE
- CL - CENTER LINE
- CV - CHEVRON LINE
- CW - CROSSWALK
- DL - DOTTED LINE
- ELY - EDGE LINE (YELLOW)
- ELW - EDGE LINE (WHITE)
- ID - ISLAND DELINEATOR
- LL - LANE LINE
- SL - STOP LINE
- PS - PARKING STALL LINE
- TY - TRANSVERSE LINE (YELLOW)
- YL - YIELD LINE

CALCULATED HAC  
CHECKED JTY

0 20 40  
HORIZONTAL SCALE IN FEET

**TRAFFIC CONTROL - N. MAIN ST. (SR-57)  
STA. 453+00 TO STA. 458+00**

**LOR-57-8.52  
ENVISION PHASE 1**



**PAVEMENT MARKING LEGEND**

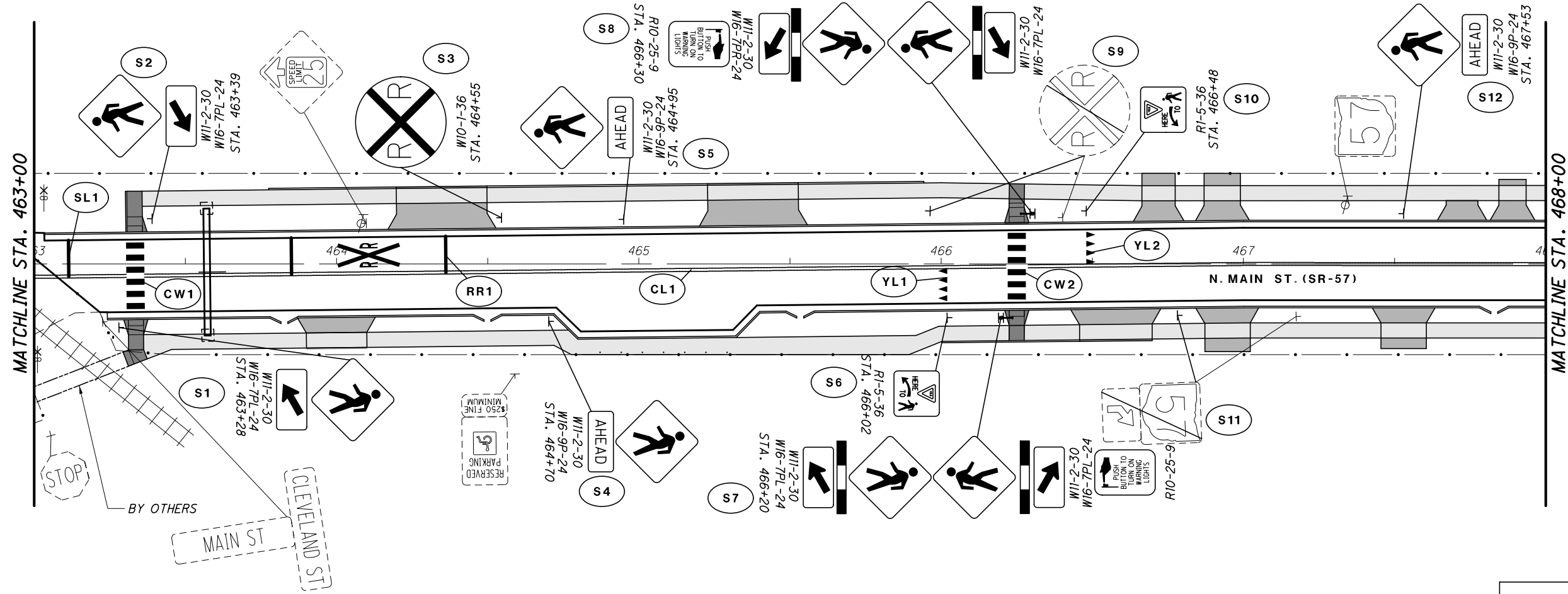
- CH - CHANNELIZING LINE
- CL - CENTER LINE
- CV - CHEVRON LINE
- CW - CROSSWALK
- DL - DOTTED LINE
- ELY - EDGE LINE (YELLOW)
- ELW - EDGE LINE (WHITE)
- ID - ISLAND DELINEATOR
- LL - LANE LINE
- SL - STOP LINE
- PS - PARKING STALL LINE
- TY - TRANSVERSE LINE (YELLOW)
- YL - YIELD LINE

CALCULATED HAC  
CHECKED JTY

0 20 40  
HORIZONTAL SCALE IN FEET

**TRAFFIC CONTROL - N. MAIN ST. (SR-57)**  
**STA. 458+00 TO STA. 463+00**

**LOR-57-8.52**  
**ENVISION PHASE 1**



**SIGN LEGEND**

	EXISTING SIGN TO REMAIN
	EXISTING SIGN TO BE RELOCATED
	EXISTING SIGN TO BE REMOVED
	PROPOSED SIGN

**PAVEMENT MARKING LEGEND**

- CH - CHANNELIZING LINE
- CL - CENTER LINE
- CV - CHEVRON LINE
- CW - CROSSWALK
- DL - DOTTED LINE
- ELY - EDGE LINE (YELLOW)
- ELW - EDGE LINE (WHITE)
- ID - ISLAND DELINEATOR
- LL - LANE LINE
- SL - STOP LINE
- PS - PARKING STALL LINE
- TY - TRANSVERSE LINE (YELLOW)
- YL - YIELD LINE

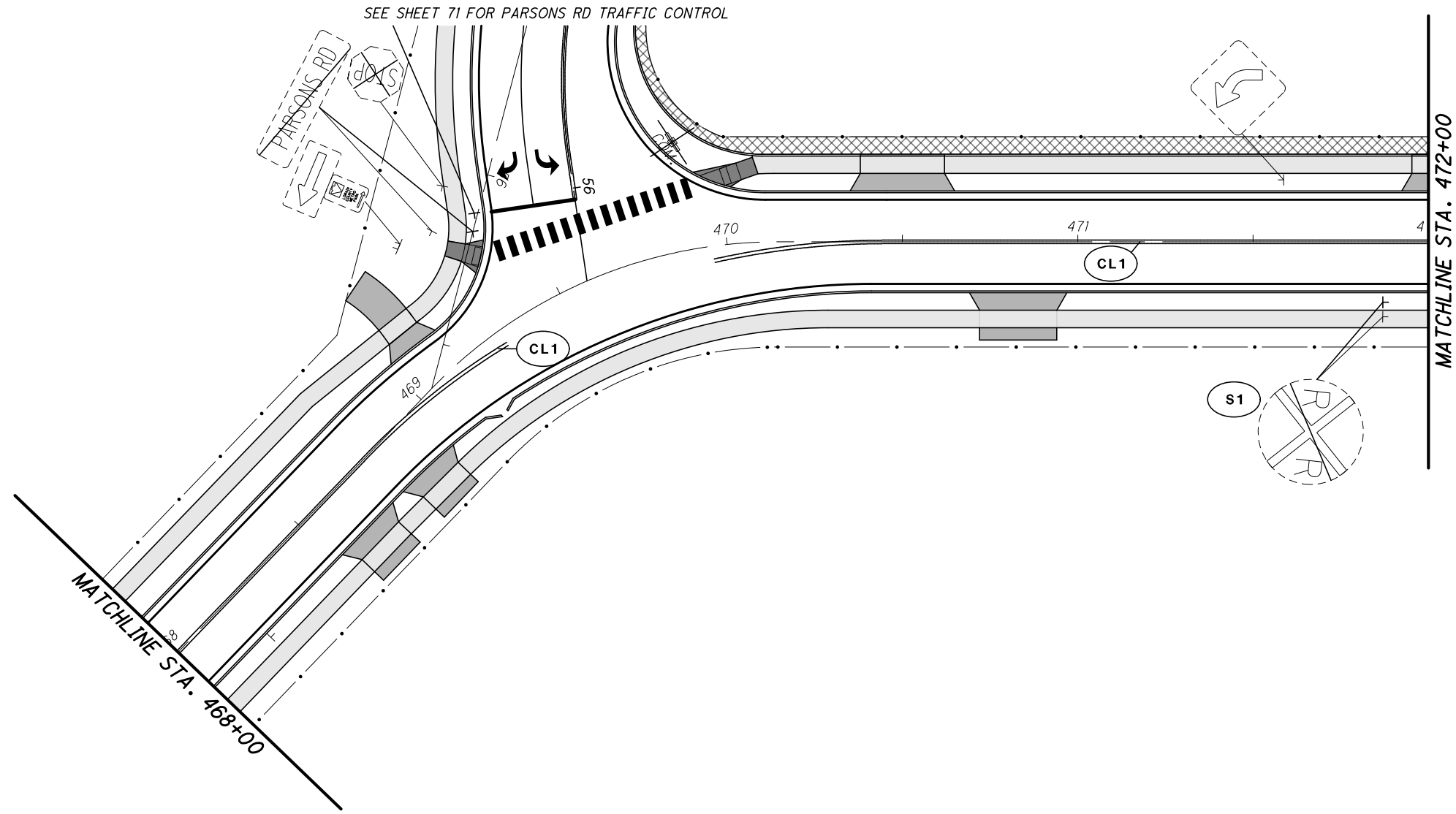
CALCULATED  
HAC  
CHECKED  
JTY

0 20 40  
HORIZONTAL SCALE IN FEET

**TRAFFIC CONTROL - N. MAIN ST. (SR-57)  
STA. 463+00 TO STA. 468+00**

**LOR-57-8.52  
ENVISION PHASE 1**





**SIGN LEGEND**

	EXISTING SIGN TO REMAIN
	EXISTING SIGN TO BE RELOCATED
	EXISTING SIGN TO BE REMOVED
	PROPOSED SIGN

**PAVEMENT MARKING LEGEND**

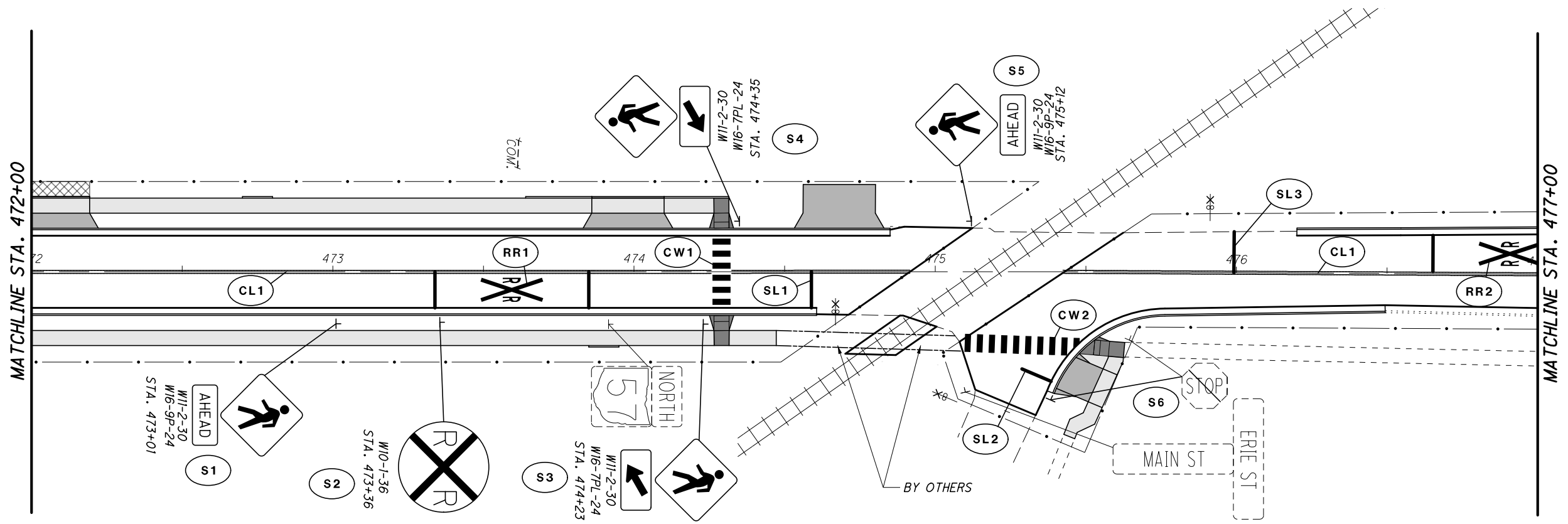
- CH - CHANNELIZING LINE
- CL - CENTER LINE
- CV - CHEVRON LINE
- CW - CROSSWALK
- DL - DOTTED LINE
- ELY - EDGE LINE (YELLOW)
- ELW - EDGE LINE (WHITE)
- ID - ISLAND DELINEATOR
- LL - LANE LINE
- SL - STOP LINE
- PS - PARKING STALL LINE
- TY - TRANSVERSE LINE (YELLOW)
- YL - YIELD LINE

CALCULATED  
HAC  
CHECKED  
JTY

0 20 40  
HORIZONTAL  
SCALE IN FEET

**TRAFFIC CONTROL - N. MAIN ST. (SR-57)**  
**STA. 468+00 TO STA. 472+00**

**LOR-57-8.52**  
**ENVISION PHASE 1**



**SIGN LEGEND**

	EXISTING SIGN TO REMAIN
	EXISTING SIGN TO BE RELOCATED
	EXISTING SIGN TO BE REMOVED
	PROPOSED SIGN

**PAVEMENT MARKING LEGEND**

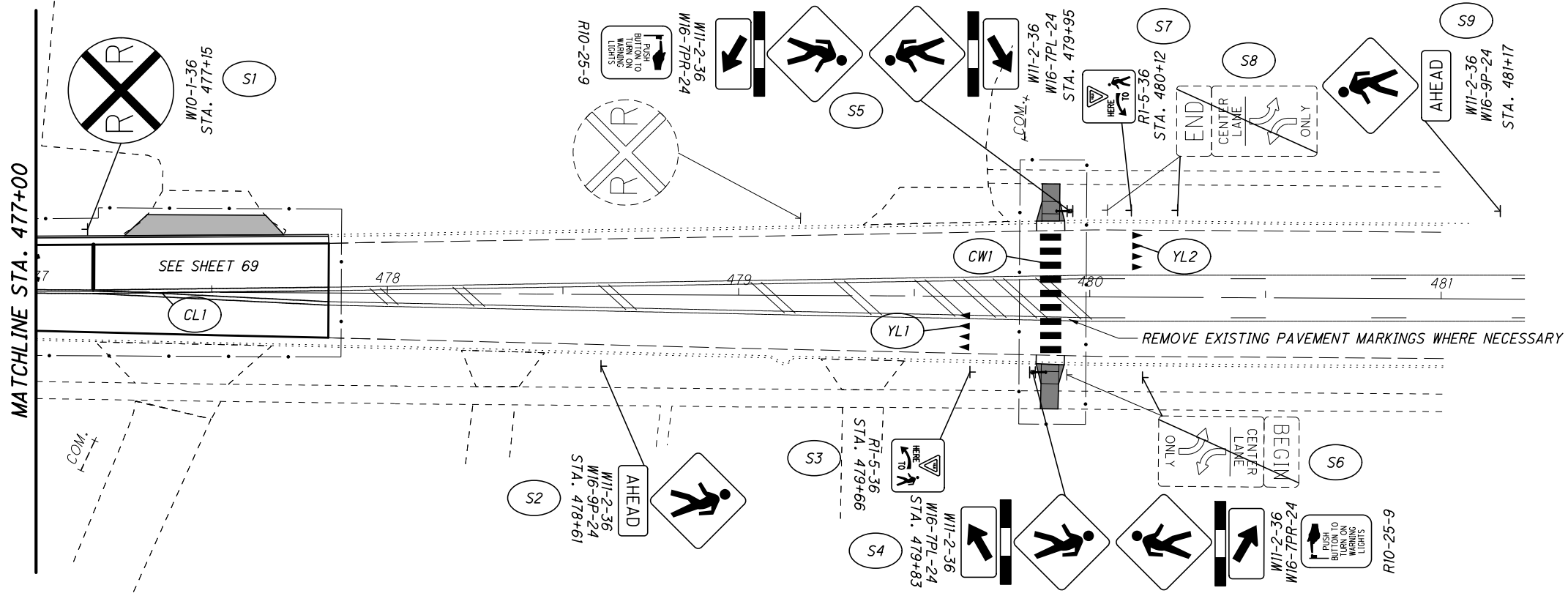
- CH - CHANNELIZING LINE
- CL - CENTER LINE
- CV - CHEVRON LINE
- CW - CROSSWALK
- DL - DOTTED LINE
- ELY - EDGE LINE (YELLOW)
- ELW - EDGE LINE (WHITE)
- ID - ISLAND DELINEATOR
- LL - LANE LINE
- SL - STOP LINE
- PS - PARKING STALL LINE
- TY - TRANSVERSE LINE (YELLOW)
- YL - YIELD LINE

CALCULATED  
HAC  
CHECKED  
JTY

0 20 40  
HORIZONTAL  
SCALE IN FEET

**TRAFFIC CONTROL - N. MAIN ST. (SR-57)  
STA. 472+00 TO STA. 477+00**

**LOR-57-8.52  
ENVISION PHASE 1**



**SIGN LEGEND**

	EXISTING SIGN TO REMAIN
	EXISTING SIGN TO BE RELOCATED
	EXISTING SIGN TO BE REMOVED
	PROPOSED SIGN

**PAVEMENT MARKING LEGEND**

- CH - CHANNELIZING LINE
- CL - CENTER LINE
- CV - CHEVRON LINE
- CW - CROSSWALK
- DL - DOTTED LINE
- ELY - EDGE LINE (YELLOW)
- ELW - EDGE LINE (WHITE)
- ID - ISLAND DELINEATOR
- LL - LANE LINE
- SL - STOP LINE
- PS - PARKING STALL LINE
- TY - TRANSVERSE LINE (YELLOW)
- YL - YIELD LINE

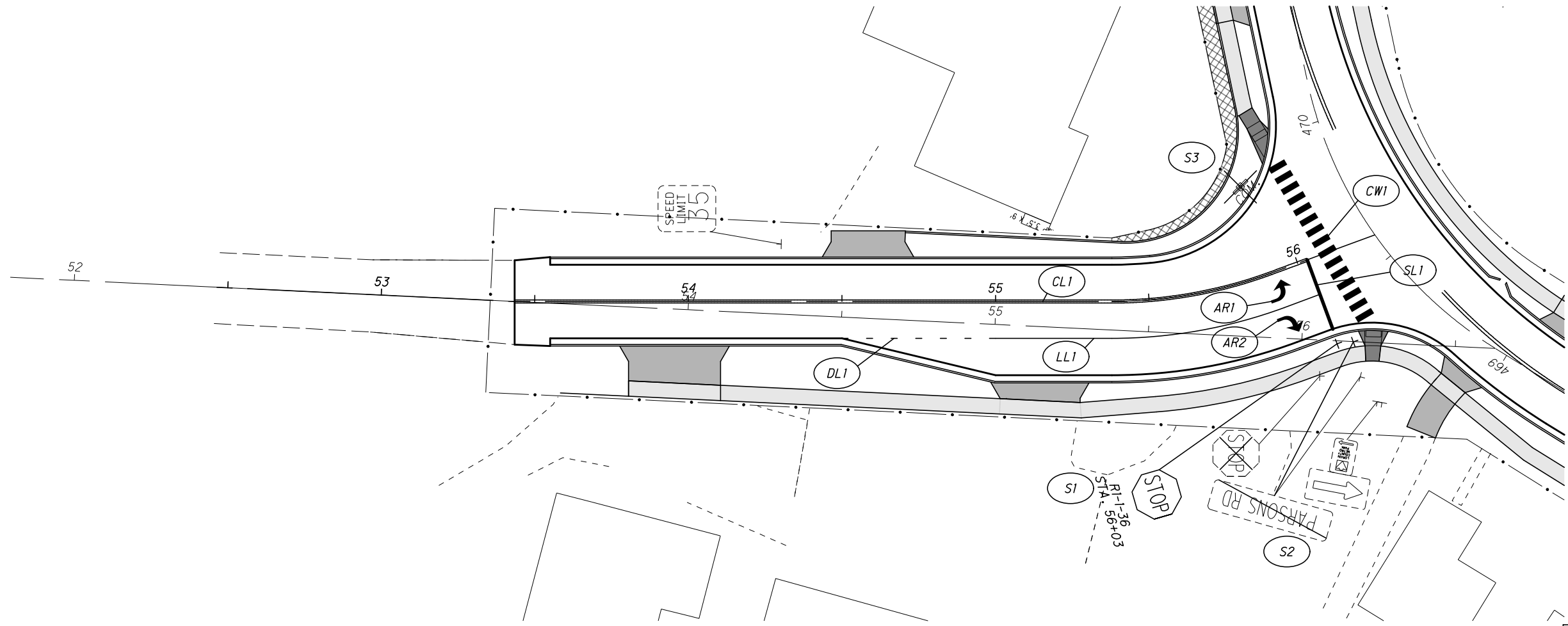
CALCULATED  
HAC  
CHECKED  
JTY

0 20 40  
HORIZONTAL SCALE IN FEET

**TRAFFIC CONTROL - N. MAIN ST. (SR-57)**  
**STA. 477+00 TO STA. 481+00**

**LOR-57-8.52**  
**ENVISION PHASE 1**

SEE SHEET 68 FOR N. MAIN ST. (SR-57) TRAFFIC CONTROL



SEE SHEET 68 FOR N. MAIN ST. (SR-57) TRAFFIC CONTROL

SIGN LEGEND

	EXISTING SIGN TO REMAIN
	EXISTING SIGN TO BE RELOCATED
	EXISTING SIGN TO BE REMOVED
	PROPOSED SIGN

PAVEMENT MARKING LEGEND

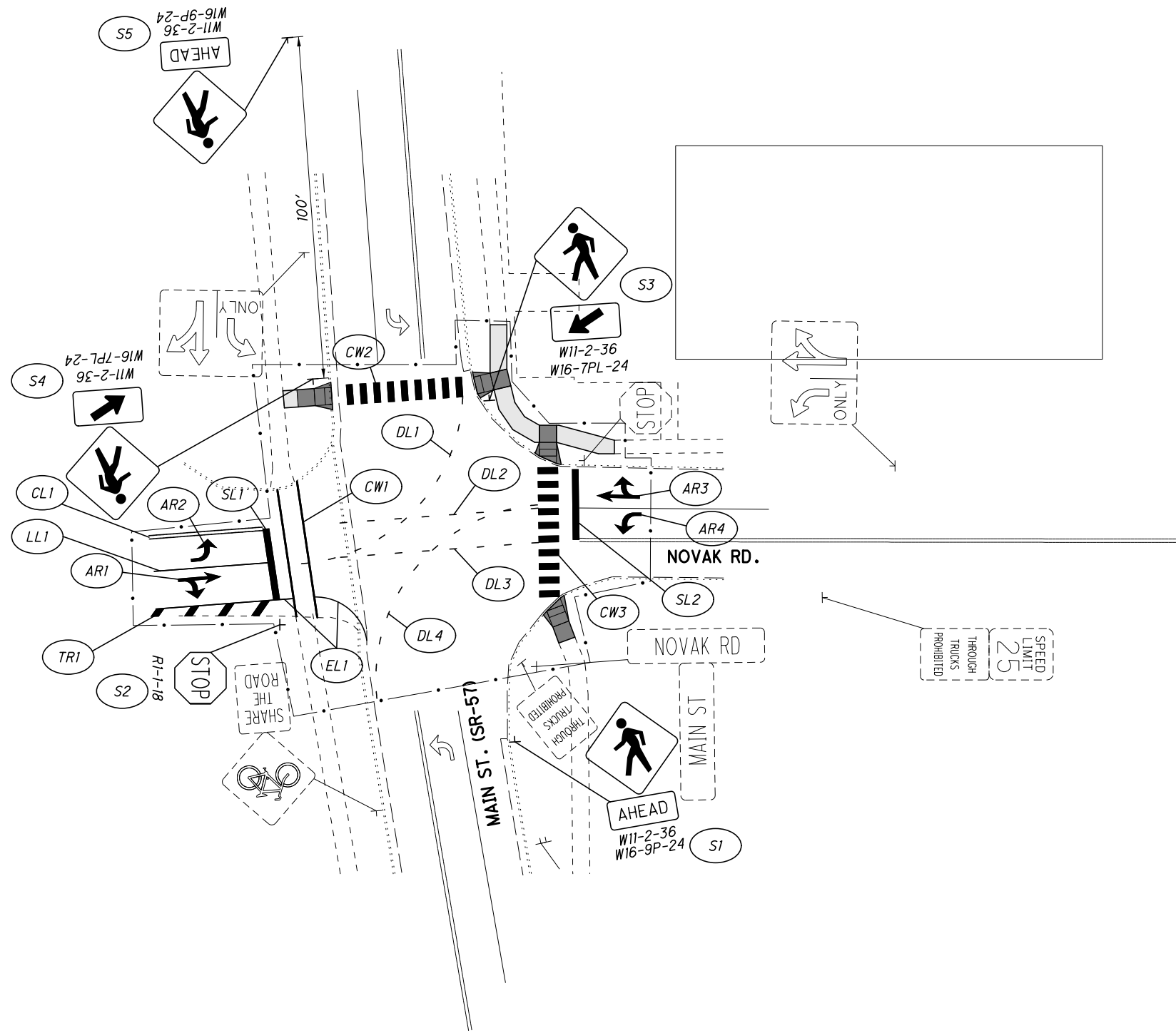
- CH - CHANNELIZING LINE
- CL - CENTER LINE
- CV - CHEVRON LINE
- CW - CROSSWALK
- DL - DOTTED LINE
- ELY - EDGE LINE (YELLOW)
- ELW - EDGE LINE (WHITE)
- ID - ISLAND DELINEATOR
- LL - LANE LINE
- SL - STOP LINE
- PS - PARKING STALL LINE
- TY - TRANSVERSE LINE (YELLOW)
- YL - YIELD LINE

CALCULATED  
HAC  
CHECKED  
JTY

0 20 40  
HORIZONTAL  
SCALE IN FEET

TRAFFIC CONTROL - PARSONS RD.  
STA. 52+00 TO STA. 56+00

LOR-57-8.52  
ENVISION PHASE 1



**SIGN LEGEND**

	EXISTING SIGN TO REMAIN
	EXISTING SIGN TO BE RELOCATED
	EXISTING SIGN TO BE REMOVED
	PROPOSED SIGN

**PAVEMENT MARKING LEGEND**

- CH - CHANNELIZING LINE
- CL - CENTER LINE
- CV - CHEVRON LINE
- CW - CROSSWALK
- DL - DOTTED LINE
- ELY - EDGE LINE (YELLOW)
- ELW - EDGE LINE (WHITE)
- ID - ISLAND DELINEATOR
- LL - LANE LINE
- SL - STOP LINE
- PS - PARKING STALL LINE
- TY - TRANSVERSE LINE (YELLOW)
- YL - YIELD LINE

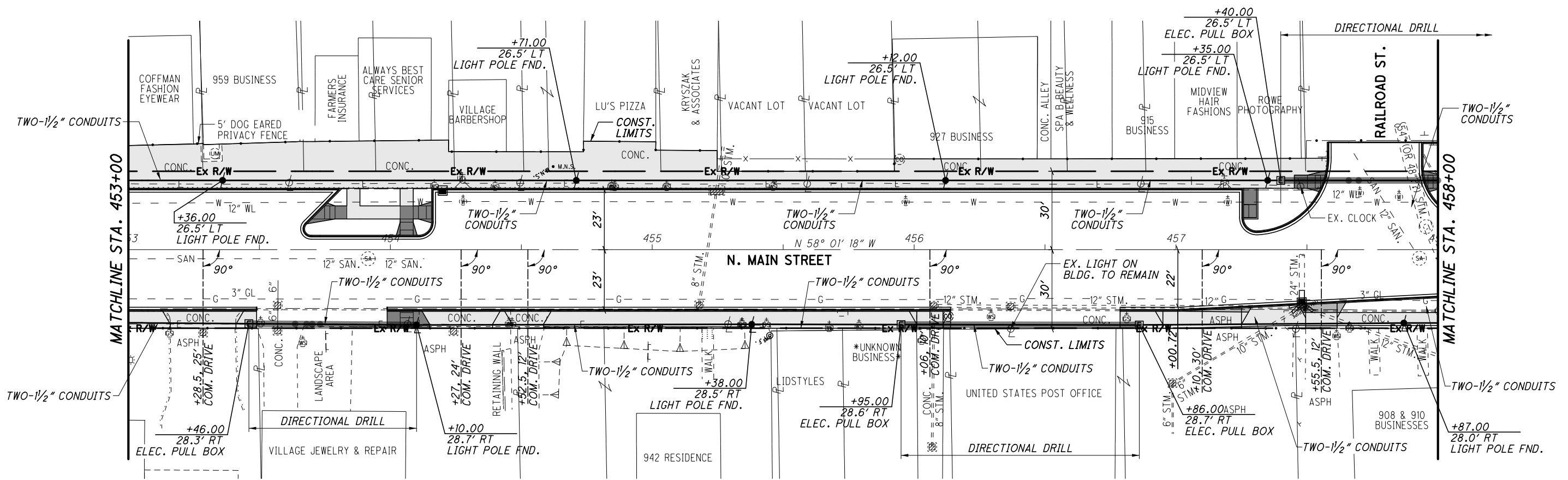
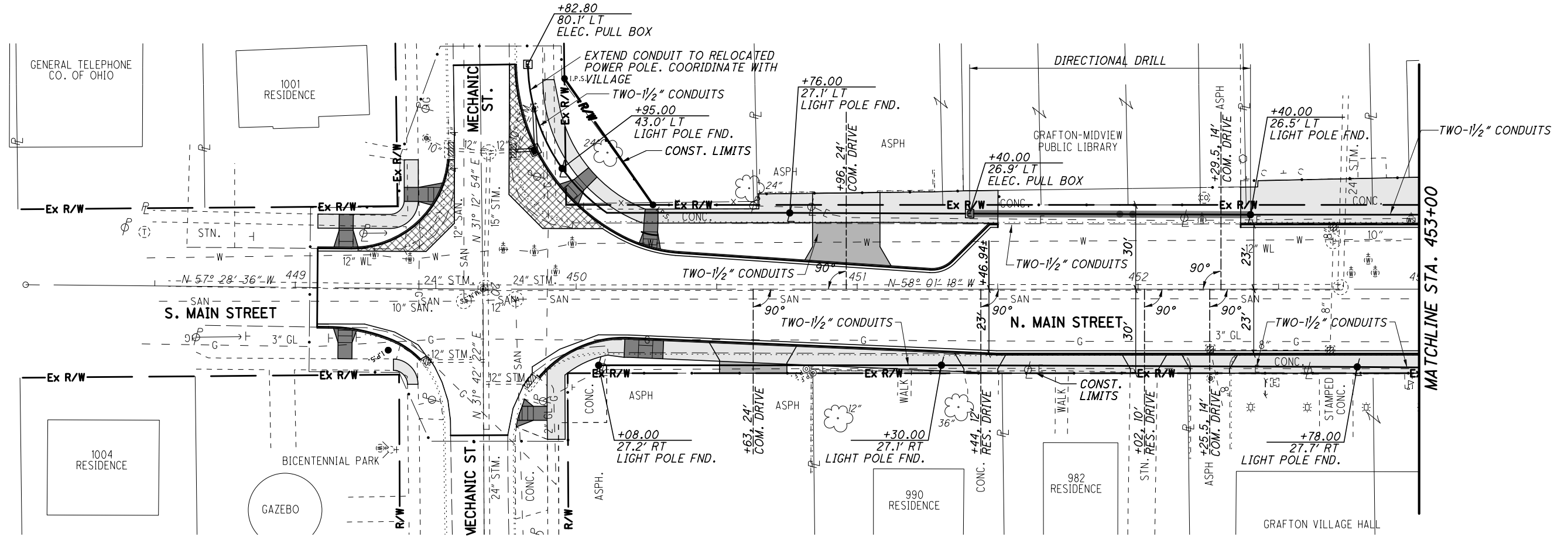
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HORIZONTAL SCALE IN FEET

**TRAFFIC CONTROL**  
**NOVAK RD. AND MAIN ST. (SR-57)**

**LOR-57-8.52**  
**ENVISION PHASE 1**

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LIGHTING PLAN  
STA. 448+50 TO STA. 453+00

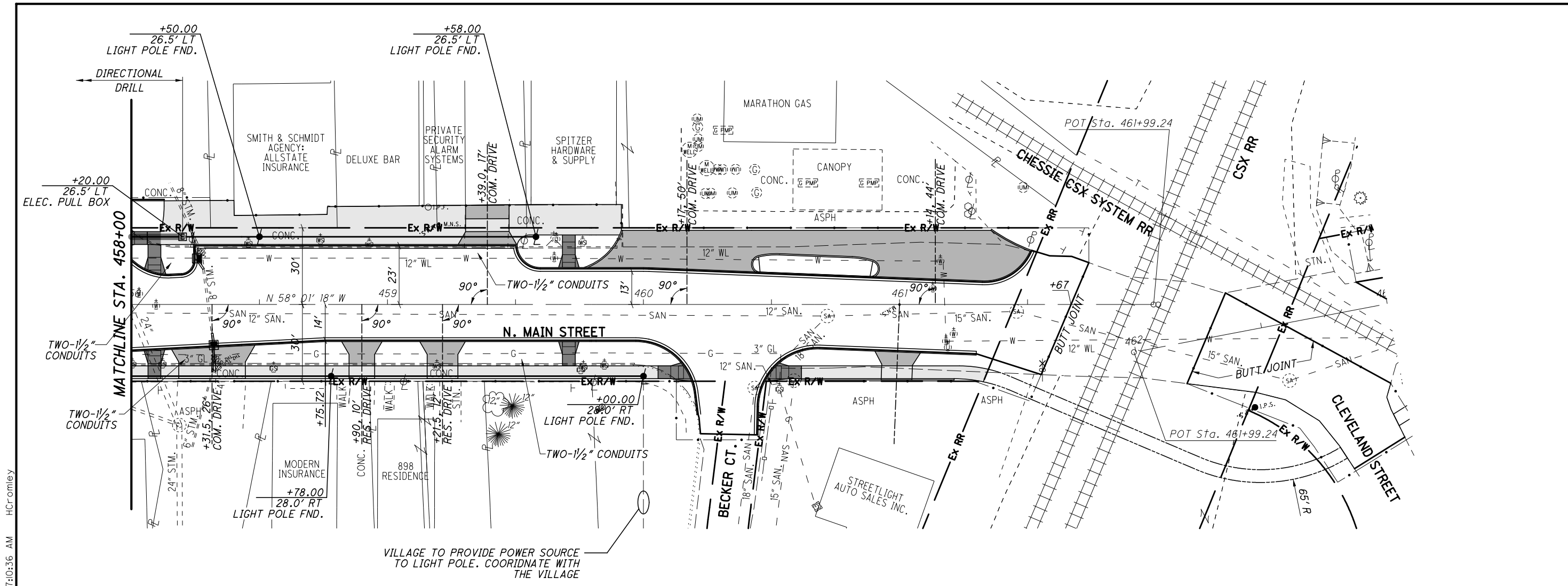
LOR-57-8.52  
ENVISION PHASE 1



CALCULATED  
CHECKED

LIGHTING PLAN  
STA. 458+00 TO STA. 463+00

LOR-57-8.52  
ENVISION PHASE 1



VILLAGE TO PROVIDE POWER SOURCE  
TO LIGHT POLE. COORDINATE WITH  
THE VILLAGE

**LIGHTING**

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
625	LIGHT POLE FOUNDATION	EACH	17
625	CONDUIT, 1-1/2", 725.051, AS PER PLAN	FT	3332
625	CONDUIT 1 1/2", JACKED OR DRILLED, 725.051, AS PER PLAN	FT	670
625	TRENCH	FT	1331
625	PULL BOX, 725.07, SIZE 4	EACH	7
625	UNDERGROUND WARNING/MARKING TAPE	FT	1331

**SCOPE OF WORK**

THE CONTRACTOR SHALL INSTALL LIGHTING CONDUITS, PULL BOXES AND LIGHT POLE FOUNDATIONS. THE VILLAGE OF GRAFTON WILL BE PULLING WIRES AND INSTALLING LIGHT POLES. THE CONTRACTOR SHALL COORDINATE WITH THE VILLAGE REGARDING CONDUIT AND PULL BOX LOCATIONS. THE VILLAGE WILL PROVIDE ANCHOR BOLT LAYOUT INFORMATION TO THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING ANCHOR BOLTS.

**GENERAL SPECIFICATIONS**

THESE ITEMS ARE SUPPLEMENTAL TO ITEMS 625 AND 725 OF THE ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS. REFERENCE SHALL ALSO BE MADE TO THE STANDARD CONSTRUCTION DRAWINGS LISTED ON THE TITLE SHEET.

**MAINTAINING LIGHTING DURING CONSTRUCTION**

LIGHTING SHALL BE MAINTAINED DURING CONSTRUCTION IN AREAS WHERE VEHICULAR AND PEDESTRIAN TRAFFIC IS TO BE MAINTAINED. THE LIGHTING MAY CONSIST OF EXISTING LIGHTING, RELOCATED EXISTING LIGHTING, TEMPORARY LIGHTING OR PROPOSED LIGHTING. LIGHT LEVELS SHALL BE COMMENSURATE WITH THE EXISTING CONDITIONS. THE COST FOR MAINTAINING LIGHTING SHALL BE CONSIDERED INCIDENTAL TO ITEM 614, MAINTAINING TRAFFIC.

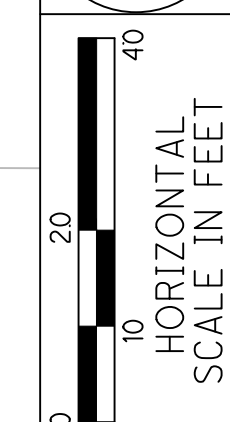
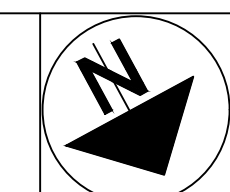
ITEM 625, CONDUIT 1 1/2", 725.051, AS PER PLAN  
ITEM 625, CONDUIT 1 1/2", JACKED OR DRILLED, 725.051, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, CONDUIT 1 1/2", 725.051 & 725.052 SHALL BE AS FOLLOWS:

CONDUIT 1 1/2", 725.051, AS PER PLAN SHALL BE PER ODOT'S REQUIREMENT FOR CONDUIT 1 1/2", WITH ADDITION OF #12 GALVANIZED STEEL PULL WIRE OR 200 LB. TEST HANDLINE.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH ITEM 625, CONDUIT 1 1/2", 725.051, AS PER PLAN WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

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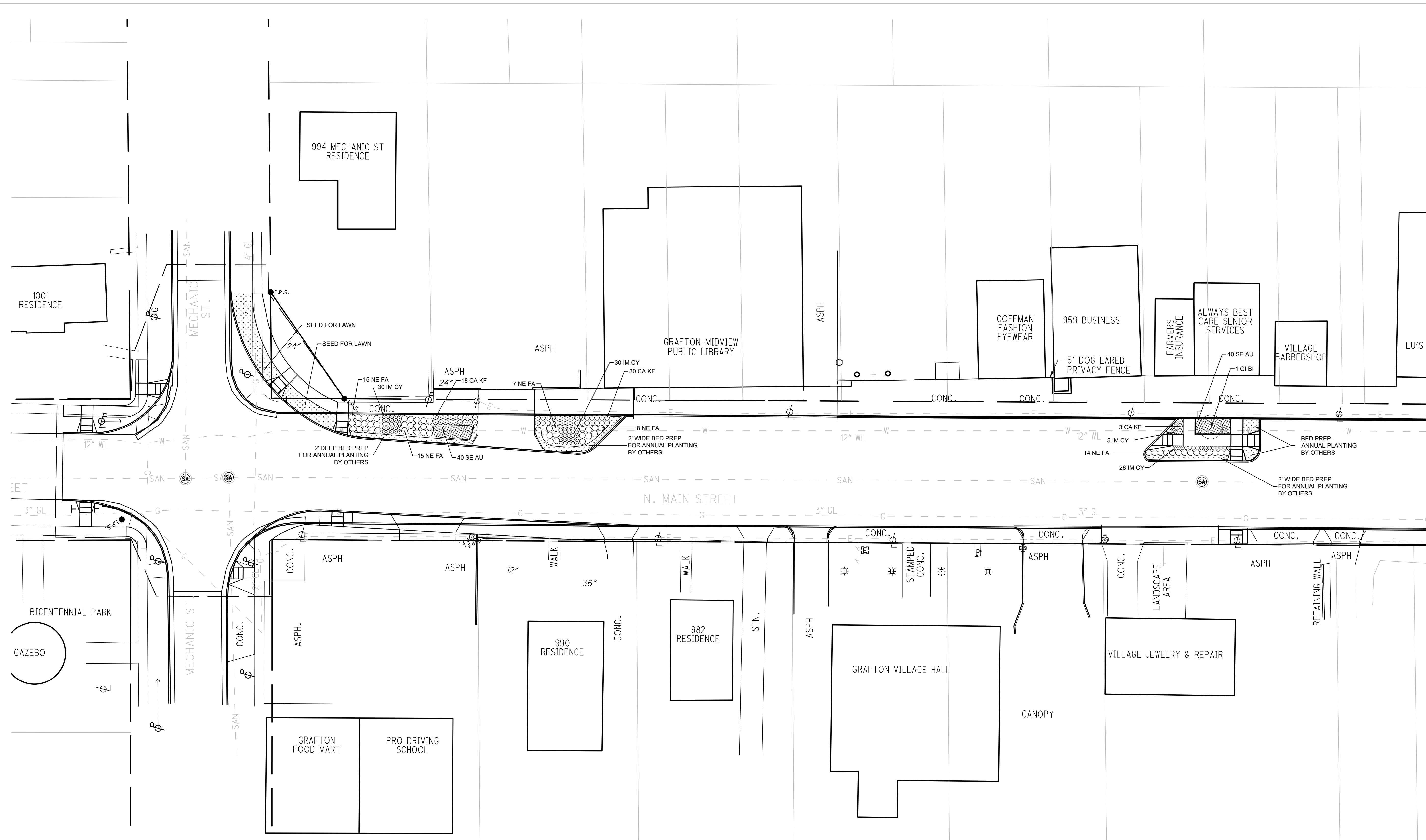


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LANDSCAPE PLAN  
 SHEET 1 OF 4

LOR-57-8.52  
 ENVISION PHASE 1

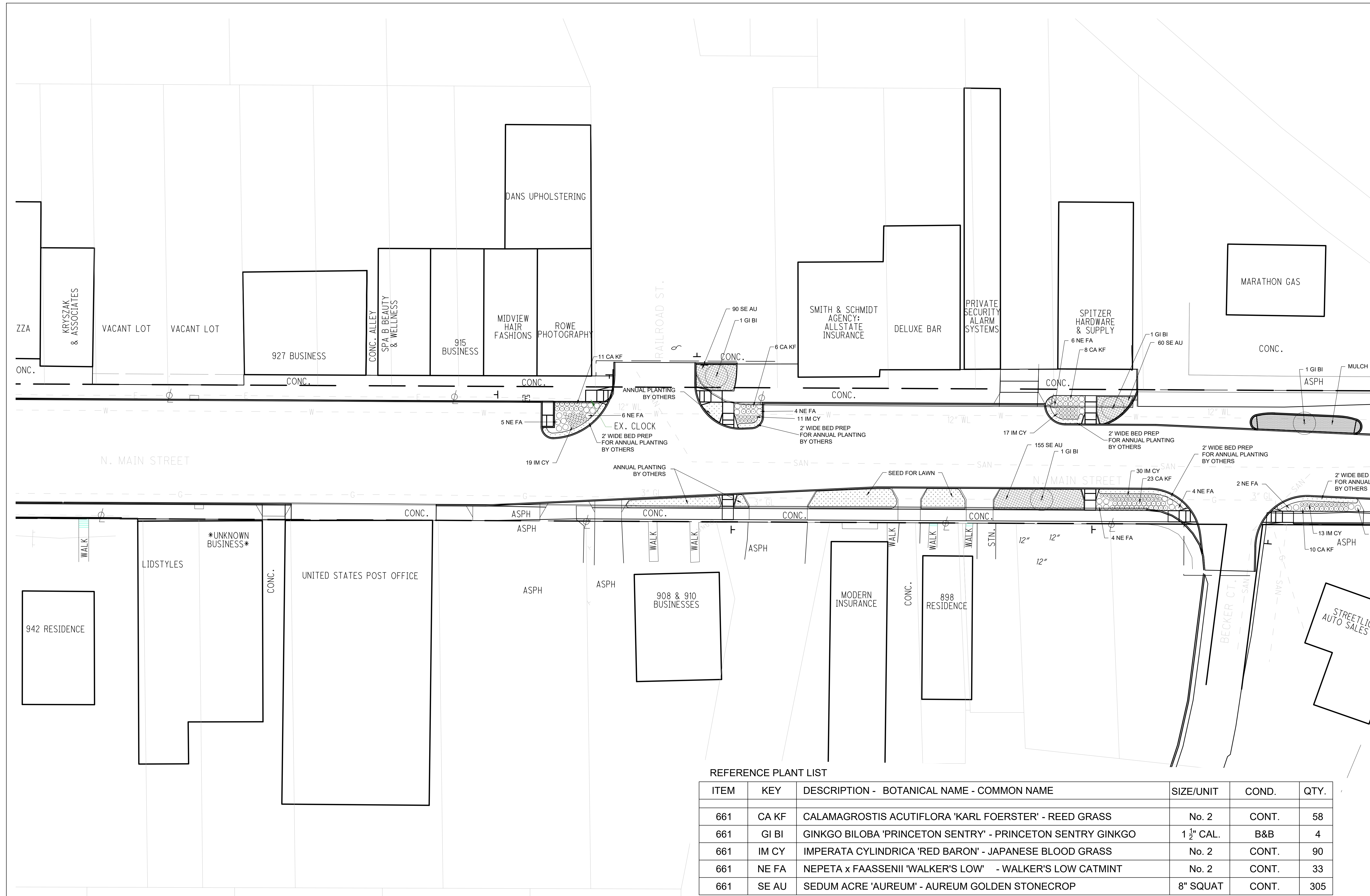
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REFERENCE PLANT LIST

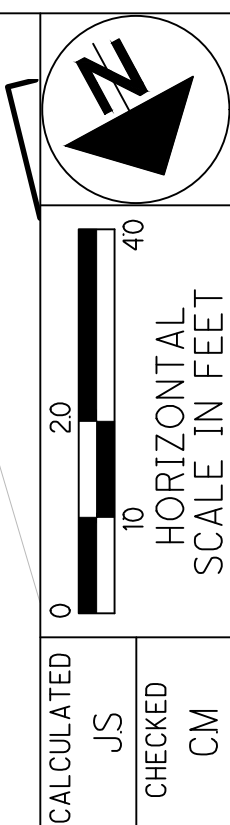
ITEM	KEY	DESCRIPTION - BOTANICAL NAME - COMMON NAME	SIZE/UNIT	COND.	QTY.
661	CA KF	CALAMAGROSTIS ACUTIFLORA 'KARL FOERSTER' - REED GRASS	No. 2	CONT.	51
661	GI BI	GINKGO BILOBA 'PRINCETON SENTRY' - PRINCETON SENTRY GINKGO	1 1/2" CAL.	B&B	1
661	IM CY	IMPERATA CYLINDRICA 'RED BARON' - JAPANESE BLOOD GRASS	No. 2	CONT.	93
661	NE FA	NEPETA x FAASSENII 'WALKER'S LOW' - WALKER'S LOW CATMINT	No. 2	CONT.	59
661	SE AU	SEDUM ACRE 'AUREUM' - AUREUM GOLDEN STONECROP	8" SQUAT	CONT.	80





REFERENCE PLANT LIST

ITEM	KEY	DESCRIPTION - BOTANICAL NAME - COMMON NAME	SIZE/UNIT	COND.	QTY.
661	CA KF	CALAMAGROSTIS ACUTIFLORA 'KARL FOERSTER' - REED GRASS	No. 2	CONT.	58
661	GI BI	GINKGO BILOBA 'PRINCETON SENTRY' - PRINCETON SENTRY GINKGO	1 1/2" CAL.	B&B	4
661	IM CY	IMPERATA CYLINDRICA 'RED BARON' - JAPANESE BLOOD GRASS	No. 2	CONT.	90
661	NE FA	NEPETA x FAASSENII 'WALKER'S LOW' - WALKER'S LOW CATMINT	No. 2	CONT.	33
661	SE AU	SEDUM ACRE 'AUREUM' - AUREUM GOLDEN STONECROP	8" SQUAT	CONT.	305



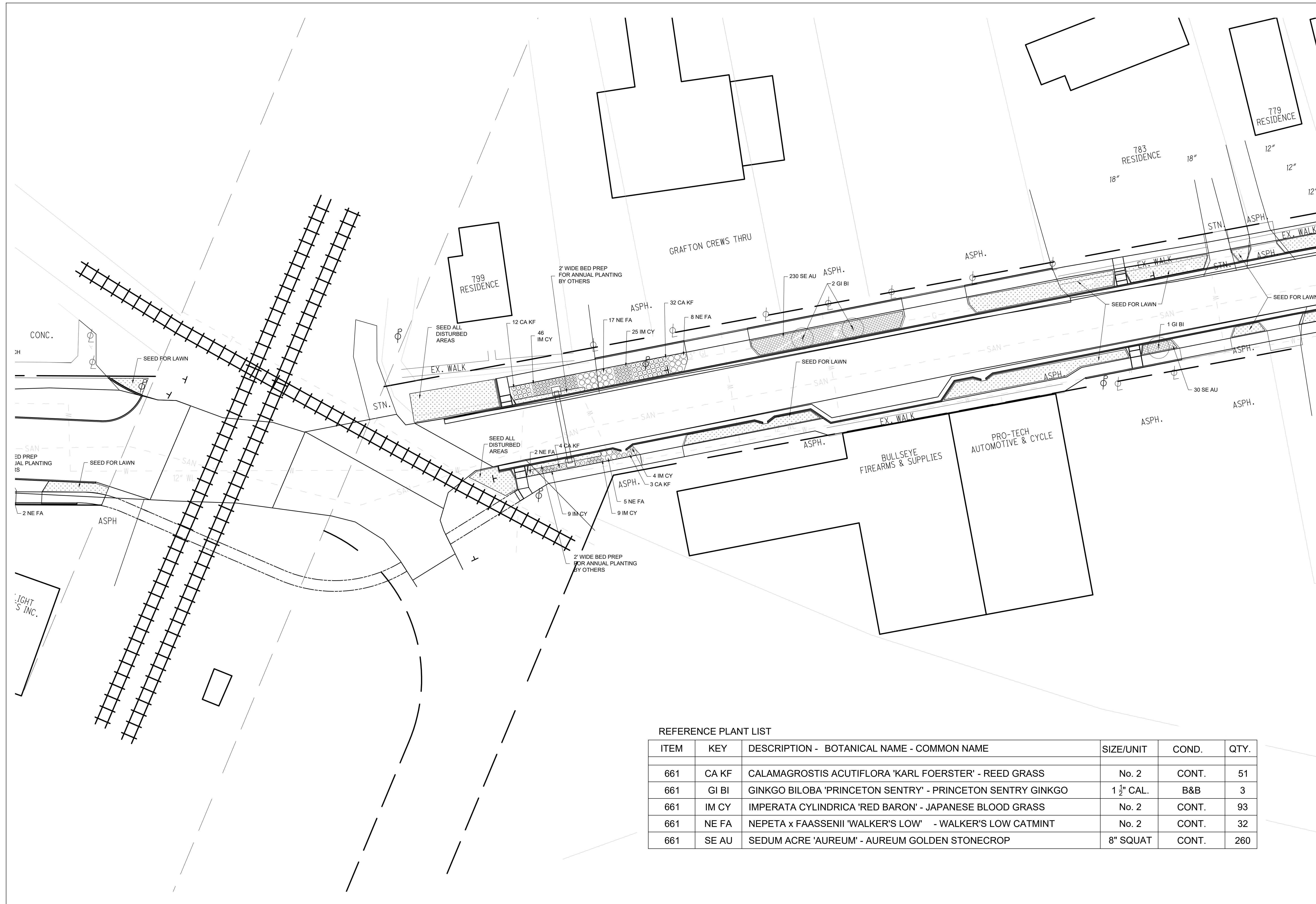
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REFERENCE PLANT LIST

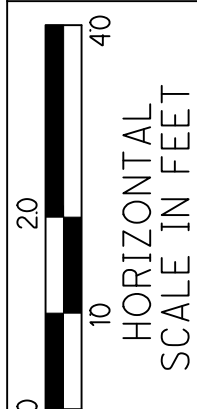
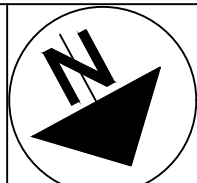
ITEM	KEY	DESCRIPTION - BOTANICAL NAME - COMMON NAME	SIZE/UNIT	COND.	QTY.
661	CA KF	CALAMAGROSTIS ACUTIFLORA 'KARL FOERSTER' - REED GRASS	No. 2	CONT.	51
661	GI BI	GINKGO BILOBA 'PRINCETON SENTRY' - PRINCETON SENTRY GINKGO	1 1/2" CAL.	B&B	3
661	IM CY	IMPERATA CYLINDRICA 'RED BARON' - JAPANESE BLOOD GRASS	No. 2	CONT.	93
661	NE FA	NEPETA x FAASSENII 'WALKER'S LOW' - WALKER'S LOW CATMINT	No. 2	CONT.	32
661	SE AU	SEDUM ACRE 'AUREUM' - AUREUM GOLDEN STONECROP	8" SQUAT	CONT.	260

LANDSCAPE PLAN  
SHEET 3 OF 4

LOR-57-8.52  
ENVISION PHASE 1







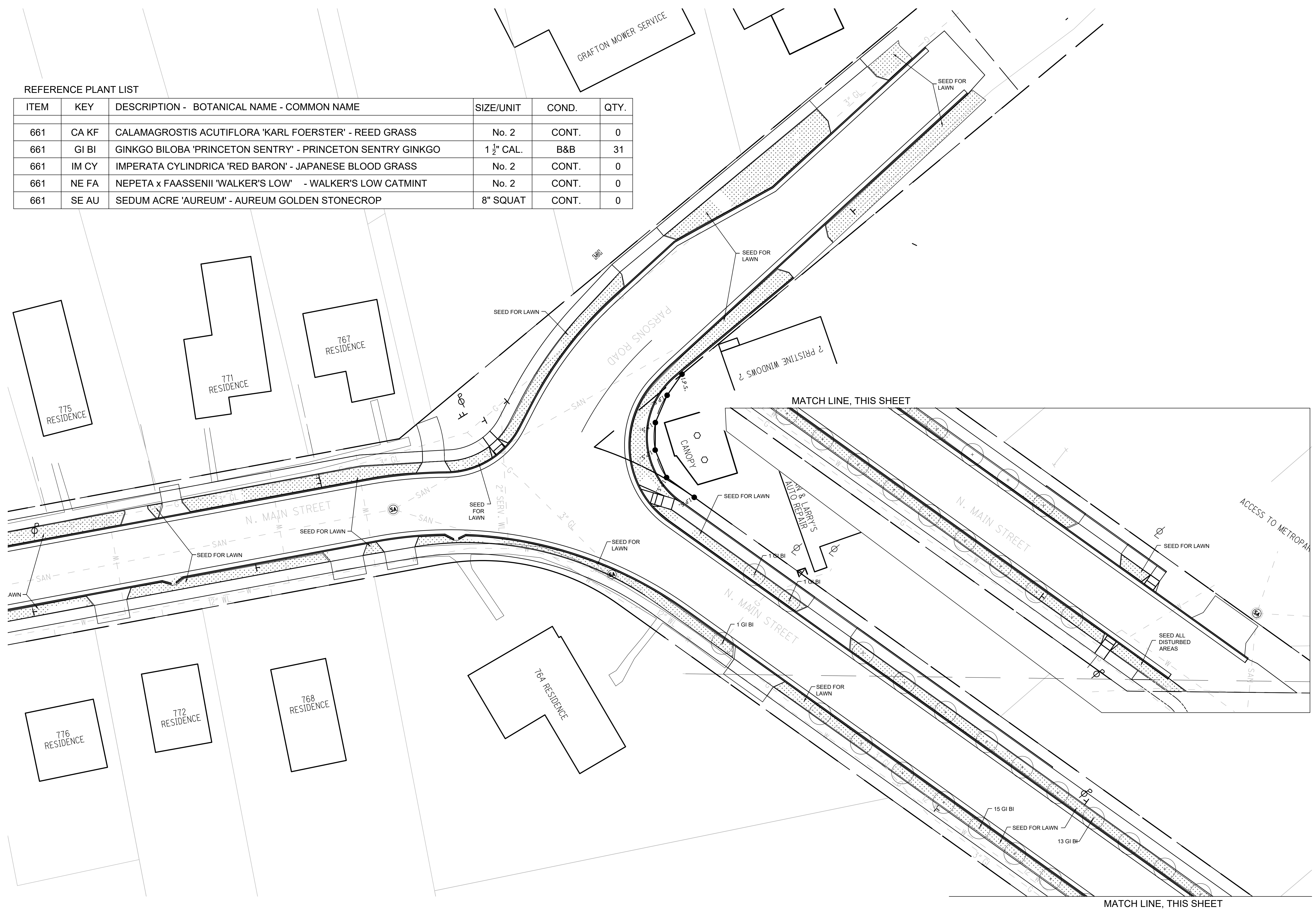
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LANDSCAPE PLAN  
SHEET 4 OF 4

LOR-57-8.52  
ENVISION PHASE 1

REFERENCE PLANT LIST

ITEM	KEY	DESCRIPTION - BOTANICAL NAME - COMMON NAME	SIZE/UNIT	COND.	QTY.
661	CA KF	CALAMAGROSTIS ACUTIFLORA 'KARL FOERSTER' - REED GRASS	No. 2	CONT.	0
661	GI BI	GINKGO BILOBA 'PRINCETON SENTRY' - PRINCETON SENTRY GINKGO	1 1/2" CAL.	B&B	31
661	IM CY	IMPERATA CYLINDRICA 'RED BARON' - JAPANESE BLOOD GRASS	No. 2	CONT.	0
661	NE FA	NEPETA x FAASSENII 'WALKER'S LOW' - WALKER'S LOW CATMINT	No. 2	CONT.	0
661	SE AU	SEDUM ACRE 'AUREUM' - AUREUM GOLDEN STONECROP	8" SQUAT	CONT.	0



MATCH LINE, THIS SHEET

MATCH LINE, THIS SHEET



# RIGHT OF WAY LEGEND SHEET LOR-57-8.52

## ENVISION MAIN ST PH1

LORAIN COUNTY, VILLAGE OF GRAFTON,  
PART OF ORIGINAL LOTS 81 AND 100  
OF GRAFTON TOWNSHIP, AND PART OF  
ORIGINAL LOT 1 OF EATON TOWNSHIP

### PLANS PREPARED BY:

FIRM NAME: POGEMEYER DESIGN GROUP, INC.  
R/W DESIGNER: DAN SUPINSKI  
R/W REVIEWER: KEVIN CANAVAN  
FIELD REVIEWER: RANDY FLUCK  
PRELIMINARY FIELD REVIEW DATE: 11-16-20  
TRACINGS FIELD REVIEW DATE: \_\_\_\_\_  
OWNERSHIP UPDATED BY: KEVIN CANAVAN  
DATE COMPLETED: 8-25-21  
PLAN COMPLETION DATE: 11-10-21

### PROJECT DESCRIPTION

THE PROJECT INVOLVES THE RESURFACING OF APPROXIMATELY 2900 FT OF MAIN ST. (SR57). ALSO INCLUDES THE REPLACEMENT OF CURB, PLACEMENT OF NEW CURB AND GUTTER, DRAINAGE IMPROVEMENTS. OTHER IMPROVEMENTS INCLUDE THE REALIGNMENT OF PARSONS ROAD, TRAFFIC SIGNAL REMOVAL, CURB BUMPOUTS AND LANDSCAPING

I, Kevin Canavan, P.S. have conducted a survey of the existing conditions for the Village of Grafton, Ohio. The results of that survey are contained herein.

Underground utility locations are shown for informational purposes only. Though they are believed to be accurate, their location is as marked on the ground by the utility company per OUPS Confirmation Numbers A020904009, A020904004, A020904020, A020904015 & A020904007 and those marks subsequently being surveyed as a part of this project.

The horizontal coordinates expressed herein are based on the Ohio State Plane Coordinate System, NAD 83 (2011 Adj.), North Zone, and derived from G.P.S. and the ODOT V.R.S. network. Project has an Adjustment Factor 1.0000877683 when converting grid distances in feet to U.S. Survey feet at ground.

As a part of this project I have established the locations of the existing property lines and centerline of existing Right of Way for property takes contained herein.

As a part of this project I have established road centerlines, right-of-way lines, property lines, proposed property lines, calculated the Cross Take, present roadway occupied (PRO), Net take, and Net Residue; as well as prepared the legal descriptions necessary to acquire the parcels as shown herein.

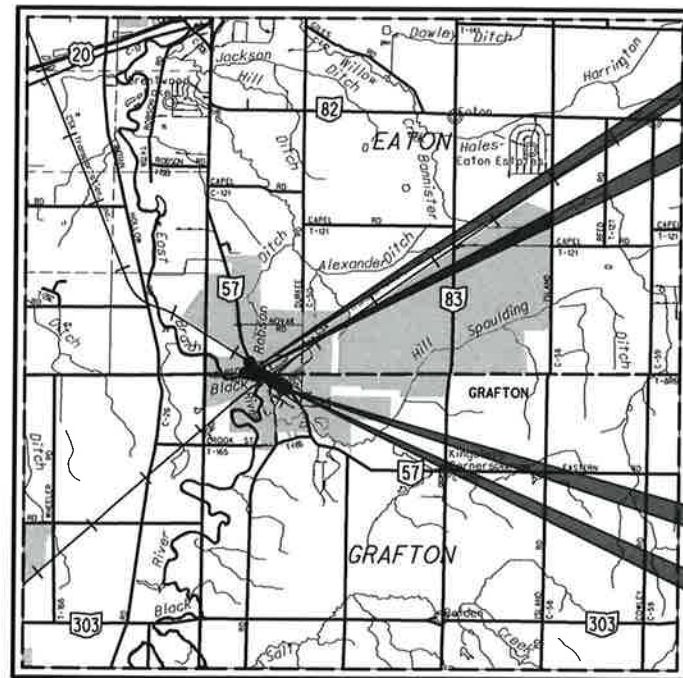
As a part of this work I have set monuments at the proposed property corners, and other points shown herein. The iron pins and caps will be 3/4" x 30" rebar with cap stamped "Poggemeyer Design Group". All of my work contained herein was conducted in accordance with Ohio Administrative Code 4733-37 commonly known as "A Minimum Standards for Boundary Surveys in the State of Ohio" unless so noted.

The words I and my as used herein are to mean that either myself or someone working under my direct supervision.

*Kevin Canavan* Nov. 10, 2021  
Kevin Canavan P.S., Professional Land Surveyor No. 7448 Date

POGEMEYER DESIGN GROUP, INC.  
1168 NORTH MAIN STREET  
BOWLING GREEN, OH 43402  
419-352-7537

### SURVEYORS SEAL:



END ACQUISITION  
STA. 470+14.12  
SLM 8.90

RESUME ACQUISITION  
STA. 469+71.99  
SLM 8.90

SUSPEND ACQUISITION  
STA. 450+27.32  
SLM 8.53

BEGIN ACQUISITION  
STA. 449+95.82  
SLM 8.52

### LOCATION MAP

LATITUDE: N41°16'40" LONGITUDE: W82°03'39"

SCALE IN MILES



PORTION TO BE IMPROVED	—————
INTERSTATE HIGHWAY	—————
FEDERAL ROUTES	—————
STATE ROUTES	—————
COUNTY & TOWNSHIP ROADS	—————
OTHER ROADS	—————

### LEGEND:

WD = WARRANTY DEED  
SH = STANDARD HIGHWAY EASEMENT

### STRUCTURE KEY

	RESIDENTIAL
	COMMERCIAL
	OUT-BUILDING

### UNDERGROUND UTILITIES

Contact Two Working Days  
Before You Dig



OHIO811. 8-1-1. or 1-800-362-2764  
(Non-members must be called directly)

### CONVENTIONAL SYMBOLS

County Line	—————	Edge of Shoulder (Ex)	—————
Township Line	—————	Edge of Shoulder (Pr)	—————
Section Line	—————	Ditch / Creek (Ex)	—————
Corporation Line	————— or / / / / /	Ditch / Creek (Pr)	—————
Fence Line (Ex)	—x—x—x—x—x—x—x—x—x—x—	Tree Line (Ex)	~~~~~
Center Line	—————	Ownership Hook Symbol	Example
Right of Way (Ex)	————— Ex R/W	Property Line Symbol	Example
Right of Way (Pr)	————— R/W	Break Line Symbol	Example
Standard Highway Ease. (Ex)	————— Ex SH	Tree (Pr)	
Standard Highway Ease. (Pr)	————— SH	Tree (Ex)	
Temporary Right of Way	————— TMP	Shrub (Ex)	
Channel Ease. (Pr)	————— CN	Shrub (Remove)	
Utility Ease. (Ex)	————— Ex U	Evergreen (Ex)	
Railroad	————— or ————	Stump	
Guardrail (Ex)	—o—o—o—o—o—o—o—o—o—o—	Evergreen (Remove)	
Guardrail (Pr)	—o—o—o—o—o—o—o—o—o—o—	Stump (Remove)	
Construction Limits	—————	Wetland (Pr)	
Edge of Pavement (Ex)	—————	Grass (Pr)	
Edge of Pavement (Pr)	—————	Aerial Target	
		Post (Ex)	
		Mailbox (Ex)	
		Mailbox (Pr)	
		Light (Ex)	
		Telephone Marker (Ex)	
		Fire Hydrant (Ex)	
		Water Meter (Ex)	
		Water Valve (Ex)	
		Utility Valve Unknown (Ex)	
		Telephone Pole (Ex)	
		Power Pole (Ex)	
		Light Pole (Ex)	

### INDEX OF SHEETS:

LEGEND SHEET	1
CENTERLINE PLAT	2-3
PROPERTY MAP	4-5
SUMMARY ADDITION R/W	6
R/W TOPO SHEETS	7, 9
R/W BOUNDARY SHEETS	8, 10

UTILITY OWNERS	
TYPE	NAME & ADDRESS
SEWER, WATER AND POWER	VILLAGE OF GRAFTON 960 MAIN STREET GRAFTON, OHIO 44044 (440) 926-2401
TELEPHONE	FRONTIER 6223 NORWALK ROAD MEDINA, OHIO 44256 (416) 544-1256
GAS	COLUMBIA GAS OF OHIO 3101 NORTH RIDGE ROAD EAST LORAIN, OHIO 44055 (440) 420-8432
CABLE	GLW BROADBAND 933 COMMERCE DRIVE GRAFTON, OHIO 44044 (440) 926-3230

NOTES: THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE OBTAINED FROM THE OWNER OF THE UTILITIES AS REQUIRED BY SECTION 153.64 O.R.C.

FEDERAL PROJECT NO. E21051  
 PID NO. 113480  
 CALCULATED JU CHECKED KCC  
 RIGHT OF WAY LEGEND SHEET  
 LOR-57-8.52 ENVISION PHASE 1  
 1/10  
 80/89



# LOR-57-8.52

LORAIN COUNTY, VILLAGE OF GRAFTON,  
PART OF ORIGINAL LOTS 81 & 100  
OF GRAFTON TWP., AND PART OF  
ORIGINAL LOT 1 OF EATON TWP.

I, Kevin Canavan, P.S. have conducted a survey of the existing conditions for the Village of Grafton, Ohio. The results of that survey are contained herein.

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The horizontal coordinates expressed herein are based on the Ohio State Plane Coordinate System, NAD 83 (2011 Adj.), North Zone, and derived from G.P.S. and the ODOT V.R.S. network. Project has an Adjustment Factor 1.0000877683 when converting grid distances in feet to U.S. Survey feet at ground.

As a part of this project I have established the locations of the existing property lines and centerline of existing Right of Way for property takes contained herein.

As a part of this project I have established road centerlines, right-of-way lines, property lines, proposed property lines, calculated the Gross Take, present roadway occupied (PRO), Net take, and Net Rseidue; as well as prepared the legal descriptions necessary to acquire the parcels as shown herein.

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The words I and my as used herein are to mean that either myself or someone working under my direct supervision.

*Kevin Canavan* Nov. 10, 2021

Kevin Canavan P.S., Professional Land Surveyor No. 7448 Date  
POGGE MEYER DESIGN GROUP, INC.  
1168 NORTH MAIN STREET  
BOWLING GREEN, OH 43402  
419-352-7537

### CENTERLINE MONUMENTS:

PRIOR TO CONSTRUCTION MAG NAILS WILL BE SET ON THE CENTERLINE OF RIGHT-OF-WAY OF STATE ROUTE 57 AND PARSONS ROAD AS SHOWN.



**MONUMENT LEGEND**

- ☐ EXISTING R/W MONUMENT BOX
- ▣ PROPOSED R/W MONUMENT BOX
- EXISTING CONCRETE MONUMENT
- PROPOSED CONCRETE MONUMENT
- ⚡ RAILROAD SPIKE FOUND
- ⚡ RAILROAD SPIKE SET
- I.P.F. IRON PIN FOUND
- I.P.F. IRON PIN FOUND W/ ID CAP
- I.P.S. IRON PIN SET W/ ID CAP
- I.P.F. IRON PIPE FOUND
- I.P.S. IRON PIPE SET
- P.K.F. P.K. NAIL FOUND
- P.K.S. P.K. NAIL SET

(I.P.O.) = FOR INFORMATIONAL PURPOSES ONLY

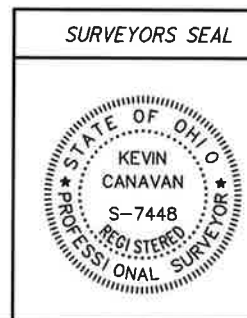
**MONUMENT LEGEND**

SETTING OF ALL MONUMENTS SHALL BE PERFORMED BY A SURVEYOR REGISTERED IN THE STATE OF OHIO. THE MONUMENT ASSEMBLIES AND REFERENCE MONUMENTS WILL BE INSTALLED BY THE CONTRACTOR AT THE TIME OF CONSTRUCTION. THE IRON PIN AND CAP (WHEN REQUIRED) ARE TO BE INSTALLED BY THE CONTRACTOR'S SURVEYOR.

CHANGES OR ALTERATIONS TO THE LOCATION OF ANY MONUMENTS SHOWN IN THIS TABLE, REQUIRE PRIOR APPROVAL FROM THE DISTRICT REAL ESTATE ADMINISTRATOR OF THE OHIO DEPARTMENT OF TRANSPORTATION. IN THE EVENT THAT CHANGES OR ALTERATIONS ARE APPROVED, A REVISED CENTERLINE PLAT WITH THE NEW LOCATIONS SHALL BE RECORDED IN THE APPLICABLE COUNTY RECORDS AND THE OHIO DEPARTMENT OF TRANSPORTATION. SPECIFICATIONS FOR MONUMENT ASSEMBLIES, REFERENCE MONUMENTS AND RIGHT OF WAY MONUMENTS ARE SHOWN ON STANDARD CONSTRUCTION DRAWING RM-1.1.

**BASIS FOR BEARINGS:**  
BEARINGS ARE BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE, 3401, NAD 83, 2011 ADJUSTMENT AND DERIVED FROM GPS AND THE ODOT VRS NETWORK.

**BASIS OF RIGHT-OF-WAY**  
RIGHT-OF-WAY SHOWN IS BASED ON THE PLAT OF RAWSONVILLE, VOL. 1, PAGE 23, RECORD PROPERTY SURVEYS, OCCUPATION, AND AUDITOR'S GIS INFORMATION.



RECEIVED \_\_\_\_\_, 20\_\_\_\_  
RECORDED \_\_\_\_\_, 20\_\_\_\_  
BOOK \_\_\_\_\_ PAGE \_\_\_\_\_  
COUNTY RECORDER

CENTERLINE PLAT

LOR-57-8.52  
ENVISION PHASE 1

PID NO. 113480

R/W DESIGNER JJ  
R/W REVIEWER KCC

2 / 10

81  
89

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PROJECT: LOR-57-8.52

PID: 113480

PROJECT GROUND COORDINATES - US SURVEY FEET

PROJECT CONTROL POINTS

STATE PLANE GRID COORDINATES

MONUMENTS TO BE SET DURING CONSTRUCTION

Project grid coordinates (U.S. Survey Feet) are relative to State Plane Grid coordinates (meters) by a Project Adjustment Factor of: 3.28112129

Horiz. Datum: NAD83 (2011) Ohio State Plane, North Zone (3401) Vert. Datum: NAVD88

ITEM 623.05 MONUMENT ASSEMBLY ITEM 623.05 REFERENCE MONUMENT

Table with columns: NAME, STATION, OFFSET (US FT), RT/LT, NORTH (US FT), EAST (US FT), ELEVATION (US FT), FEATURE. Rows include HV1 through HV9.

Table with columns: NAME, NORTH (m), EAST (m), ORTHO HT (m), NORTH (US FT), EAST (US FT). Rows include HV1 through HV9.

Table with columns: NAME, NORTH (m), EAST (m), ORTHO HT (m), NORTH (US FT), EAST (US FT). Rows include HV1 through HV9.

EXISTING MONUMENTATION CENTERLINE OF RIGHT OF WAY

EXISTING CENTERLINE CONTROL POINTS

Horiz. Datum: NAD83 (2011) Ohio State Plane, North Zone (3401) Vert. Datum: NAVD88

Table with columns: NAME, STATION, OFFSET (US FT), RT/LT, NORTH (US FT), EAST (US FT), ELEVATION (US FT), FEATURE. Row includes RW28.

Table with columns: NAME, NORTH (m), EAST (m), ORTHO HT (m), NORTH (US FT), EAST (US FT). Row includes RW28.

Table with columns: NAME, NORTH (m), EAST (m), ORTHO HT (m), NORTH (US FT), EAST (US FT). Row includes RW28.

CENTERLINE OF RIGHT OF WAY S.R. 57 (MAIN ST.) & PARSONS ROAD

CENTERLINE ALIGNMENT

Horiz. Datum: NAD83 (2011) Ohio State Plane, North Zone (3401) Vert. Datum: NAVD88

Table with columns: NAME, STATION, OFFSET (US FT), RT/LT, NORTH (US FT), EAST (US FT), ELEVATION (US FT), FEATURE. Rows include JEF11, KC461, KC464, PC01, PTO1, JEF2, RW28, KC052, PC01.

Table with columns: NAME, NORTH (m), EAST (m), ORTHO HT (m), NORTH (US FT), EAST (US FT). Rows include JEF11, KC461, KC464, PC01, PTO1, JEF2, RW28, KC052, PC01.

Table with columns: NAME, NORTH (m), EAST (m), ORTHO HT (m), NORTH (US FT), EAST (US FT). Rows include JEF11, KC461, KC464, PC01, PTO1, JEF2, RW28, KC052, PC01.

PROJECT GROUND COORDINATES - US SURVEY FEET

PROPOSED RIGHT OF WAY MONUMENTS

STATE PLANE GRID COORDINATES

MONUMENTS TO BE RESET AFTER CONSTRUCTION

Project grid coordinates (U.S. Survey Feet) are relative to State Plane Grid coordinates (meters) by a Project Adjustment Factor of: 3.28112129

Horiz. Datum: NAD83 (2011) Ohio State Plane, North Zone (3401) Vert. Datum: NAVD88

ITEM 623.05 RIGHT OF WAY PIN (TYPE 'B') ITEM 623.05 BOUNDARY PIN (TYPE 'B')

Table with columns: NAME, STATION, OFFSET (US FT), RT/LT, NORTH (US FT), EAST (US FT), ELEVATION (US FT), FEATURE. Rows include KC05, KC06, KC07, KC08, KC09, KC010.

Table with columns: NAME, NORTH (m), EAST (m), ORTHO HT (m), NORTH (US FT), EAST (US FT). Rows include KC05, KC06, KC07, KC08, KC09, KC010.

Table with columns: NAME, NORTH (m), EAST (m), ORTHO HT (m), NORTH (US FT), EAST (US FT). Rows include KC05, KC06, KC07, KC08, KC09, KC010.

PROJECT GROUND COORDINATES - US SURVEY FEET

EXISTING RIGHT OF WAY POINTS

STATE PLANE GRID COORDINATES

Project grid coordinates (U.S. Survey Feet) are relative to State Plane Grid coordinates (meters) by a Project Adjustment Factor of: 3.28112129

Horiz. Datum: NAD83 (2011) Ohio State Plane, North Zone (3401) Vert. Datum: NAVD88

Table with columns: NAME, STATION, OFFSET (US FT), RT/LT, NORTH (US FT), EAST (US FT), ELEVATION (US FT), FEATURE. Rows include J500, KT368, RW19, RW7, KT1073, RW9, RW11, RW13, RW15, RW16, RW17, KT1681, KT1707, RW23, RW24, RW25, RW27.

Table with columns: NAME, NORTH (m), EAST (m), ORTHO HT (m), NORTH (US FT), EAST (US FT). Rows include J500, KT368, RW19, RW7, KT1073, RW9, RW11, RW13, RW15, RW16, RW17, KT1681, KT1707, RW23, RW24, RW25, RW27.

Table with columns: NAME, NORTH (m), EAST (m), ORTHO HT (m), NORTH (US FT), EAST (US FT). Rows include J500, KT368, RW19, RW7, KT1073, RW9, RW11, RW13, RW15, RW16, RW17, KT1681, KT1707, RW23, RW24, RW25, RW27.

FEDERAL PROJECT NO. 0 PID NO. 113480 CALCULATED JJ CHECKED KCC CENTERLINE PLAT PROJECT CONTROL LOR-57-8.52 ENVISION PHASE 1 3/10 82 89

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PARCEL NO.	OWNER	SHEET NO.	DEED INSTRUMENT	AUDITOR'S ID NUMBER	RECORD AREA ACRES	TOTAL P.R.O. ACRES	GROSS TAKE ACRES	PRO IN TAKE ACRES	NET TAKE ACRES	STRUC-TURE	NET RESIDUE		TYPE FUNDS	REMARKS AND PERSONALITY	AS ACQUIRED	
											LEFT ACRES	RIGHT ACRES			VOLUME	PAGE
0-9	NOT USED												LOCAL			
10-WD	PATRICIA L COFFMAN & DAVID W COFFMAN	7 & 8	2019-0717846 1992-0184290	1600001107021 1600001107032 1600001107036	0.208 (c) 0.208 (c) 0.028 (c)	0.000 0.000 0.000	0.016 0.000 0.000	0.000 0.000 0.000	0.016 0.000 0.000		0.192 0.208 0.028			29.1' OF FENCE TO BE REMOVED FOR WALK IMPROVEMENTS		
	TOTAL:				0.444 (c)	0.000	0.016	0.000	0.016		0.428					
11	DAVID BEKO	4	2020-0788570	1600001107035	0.206									NO TAKE		
12	VILLAGE OF GRAFTON PUBLIC LIBRARY	7 & 8	VOL. 88 PG. 844 1979-0051420	1600001107020 1600001107019	0.2030 0.1080									NO TAKE		
13	GRAFTON MIDVIEW PUBLIC LIBRARY	4	1988-0033799 1988-0033828	1600001107018 1600001107017	0.095 0.129									NO TAKE		
14	ATTIA & CELEEN M KHRESTIAN	7 & 8	2001-0797740	1600001106025	0.3400									NO TAKE		
15	VILLAGE OF GRAFTON	7 & 8	1998-0533343	1600001111014	0.1330									NO TAKE		
16	KENNETH J KUKLIS	7 & 8	2018-0682643	1600001112001	0.132									NO TAKE		
17-49	NOT USED															
50-SH	GRABELLE PROPERTIES LLC	9 & 10	2012-0419631 2010-0358233 2012-0441875	1100100103025 1100100103006 1100100103026	5.464 1.290 1.200	0.560 0.103 0.193	0.013 0.000 0.000	0.000 0.000 0.000	0.013 0.000 0.000		5.451 1.290 1.200		S	SIGN AND CONCRETE BASE TO BE REMOVED R/W ENCROACHMENT STA. 470+74.4. 30.7 LT SIGN TO BE REMOVED, STA. 469+89.9, 31.1' LT AUD. PARCEL 1100100103025 DEED 5.4639 ACRES AUD. PARCEL 1100100103026 DEED 1.2006 ACRES		
	TOTAL:				7.950	0.856	0.013	0.000	0.013		6.741	1.2000				
51	WILLIAM GENE PATE & CHRISTINE M PATE	9 & 10	2019-076901	1100100103027	0.78									NO TAKE		
52	ADAM J BARNARD	9 & 10	2018-0668753	1100100106001	0.4400									NO TAKE		
53	TJAF LLC	9 & 10	2016-0612523	1100100105001 1600001101004 1100100105003 1600001101017 1100100103021 1600001101025	0.230 0.230 0.090 0.380 0.640 1.897									NO TAKE		
													LOCAL			

FEDERAL PROJECT NO. E210151  
 PID NO. 113480  
 STATE JOB NO. 430204  
 R/W DESIGNER JJ  
 R/W REVIEWER KCC  
**SUMMARY**  
**OF ADDITIONAL RIGHT OF WAY**  
**PHASE 1**  
 LOR-57-8.52  
 ENVISION

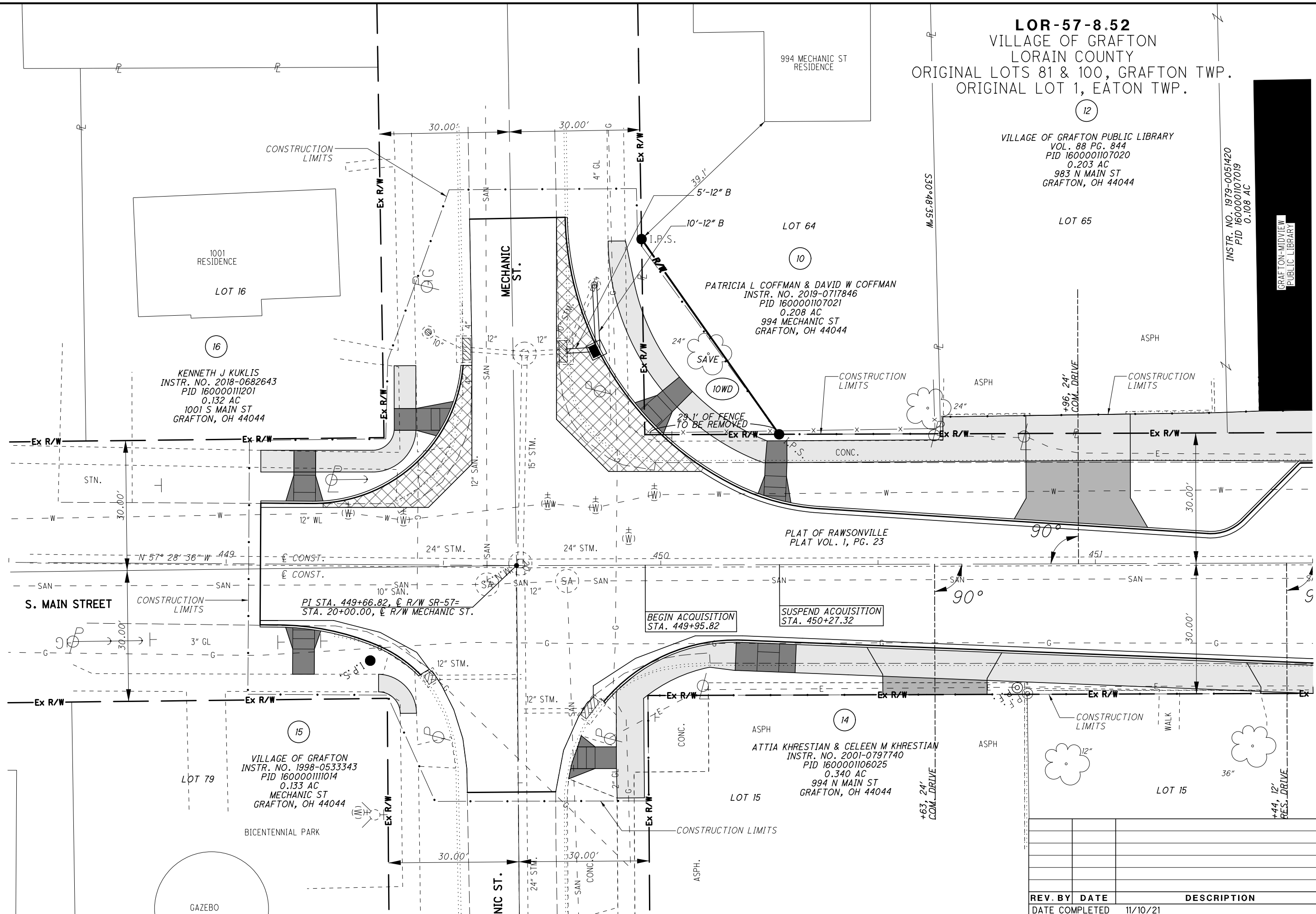
**LEGEND:**  
 WD = WARRANTY DEED  
 SH = STANDARD HIGHWAY EASEMENT  
 c = CALCULATED

**GRANTEE:**  
 ALL RIGHT OF WAY ACQUIRED IN THE NAME OF THE VILLAGE OF GRAFTON UNLESS OTHERWISE SHOWN.

\* DENOTES RIGHT OF WAY ENCROACHMENT

REV. BY	DATE	DESCRIPTION
FIELD REVIEW BY	DATE:	
OWNERSHIP VERIFIED BY	DATE:	
DATE COMPLETED	11/10/21	

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**LOR-57-8.52**  
 VILLAGE OF GRAFTON  
 LORAIN COUNTY  
 ORIGINAL LOTS 81 & 100, GRAFTON TWP.  
 ORIGINAL LOT 1, EATON TWP.

VILLAGE OF GRAFTON PUBLIC LIBRARY  
 VOL. 88 PG. 844  
 PID 1600001107020  
 0.203 AC  
 983 N MAIN ST  
 GRAFTON, OH 44044

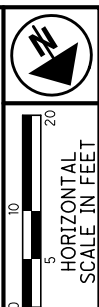
1001 RESIDENCE  
 LOT 16  
 (16)

KENNETH J KUKLIS  
 INSTR. NO. 2018-0682643  
 PID 160000111201  
 0.132 AC  
 1001 S MAIN ST  
 GRAFTON, OH 44044

994 MECHANIC ST RESIDENCE  
 LOT 64  
 (10)  
 PATRICIA L COFFMAN & DAVID W COFFMAN  
 INSTR. NO. 2019-0717846  
 PID 1600001107021  
 0.208 AC  
 994 MECHANIC ST  
 GRAFTON, OH 44044

LOT 79  
 VILLAGE OF GRAFTON  
 INSTR. NO. 1998-0533343  
 PID 1600001111014  
 0.133 AC  
 MECHANIC ST  
 GRAFTON, OH 44044

LOT 15  
 (14)  
 ATTIA KHRESTIAN & GELEEN M KHRESTIAN  
 INSTR. NO. 2001-0797740  
 PID 1600001106025  
 0.340 AC  
 994 N MAIN ST  
 GRAFTON, OH 44044



PID NO. 113480  
 R/W DESIGNER: JJJ  
 R/W REVIEWER: KCC

RIGHT OF WAY TOPO SHEET  
 STA. 448+50 TO STA. 451+50

LOR-57-8.52  
 ENVISION PHASE 1

7 / 10

86  
 89

REV. BY	DATE	DESCRIPTION

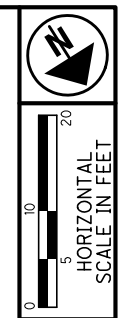
DATE COMPLETED 11/10/21

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**LOR-57-8.52**  
VILLAGE OF GRAFTON  
LORAIN COUNTY  
ORIGINAL LOTS 81 & 100, GRAFTON TWP.  
ORIGINAL LOT 1, EATON TWP.

VILLAGE OF GRAFTON PUBLIC LIBRARY  
VOL. 88 PG. 844  
PID 1600001107020  
0.203 AC  
983 N MAIN ST  
GRAFTON, OH 44044

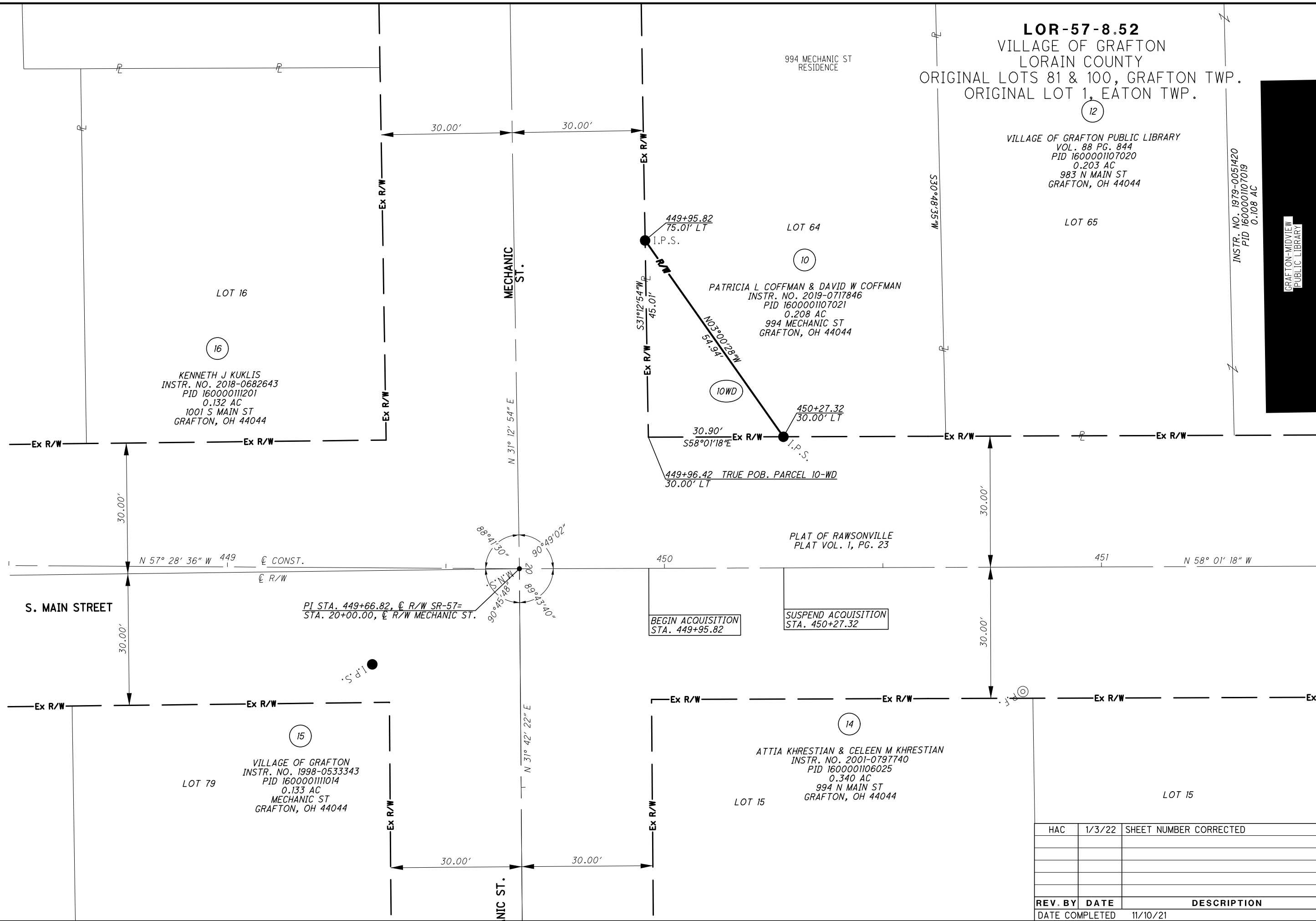
GRAFTON-MIDVIEW  
PUBLIC LIBRARY



R/W DESIGNER JJ  
R/W REVIEWER KCC  
PID NO. 113480

**RIGHT OF WAY BOUNDARY SHEET**  
**STA. 448+50 TO STA. 451+50**  
**LOR-57-8.52**  
**ENVISSION PHASE 1**

8/10  
87  
89



HAC	1/3/22	SHEET NUMBER CORRECTED
REV. BY	DATE	DESCRIPTION
DATE COMPLETED	11/10/21	



R/W DESIGNER: JJJ  
 R/W REVIEWER: KCC  
 PID NO.: 0

RIGHT OF WAY TOPO SHEET  
 STA. 468+50 TO STA. 471+25

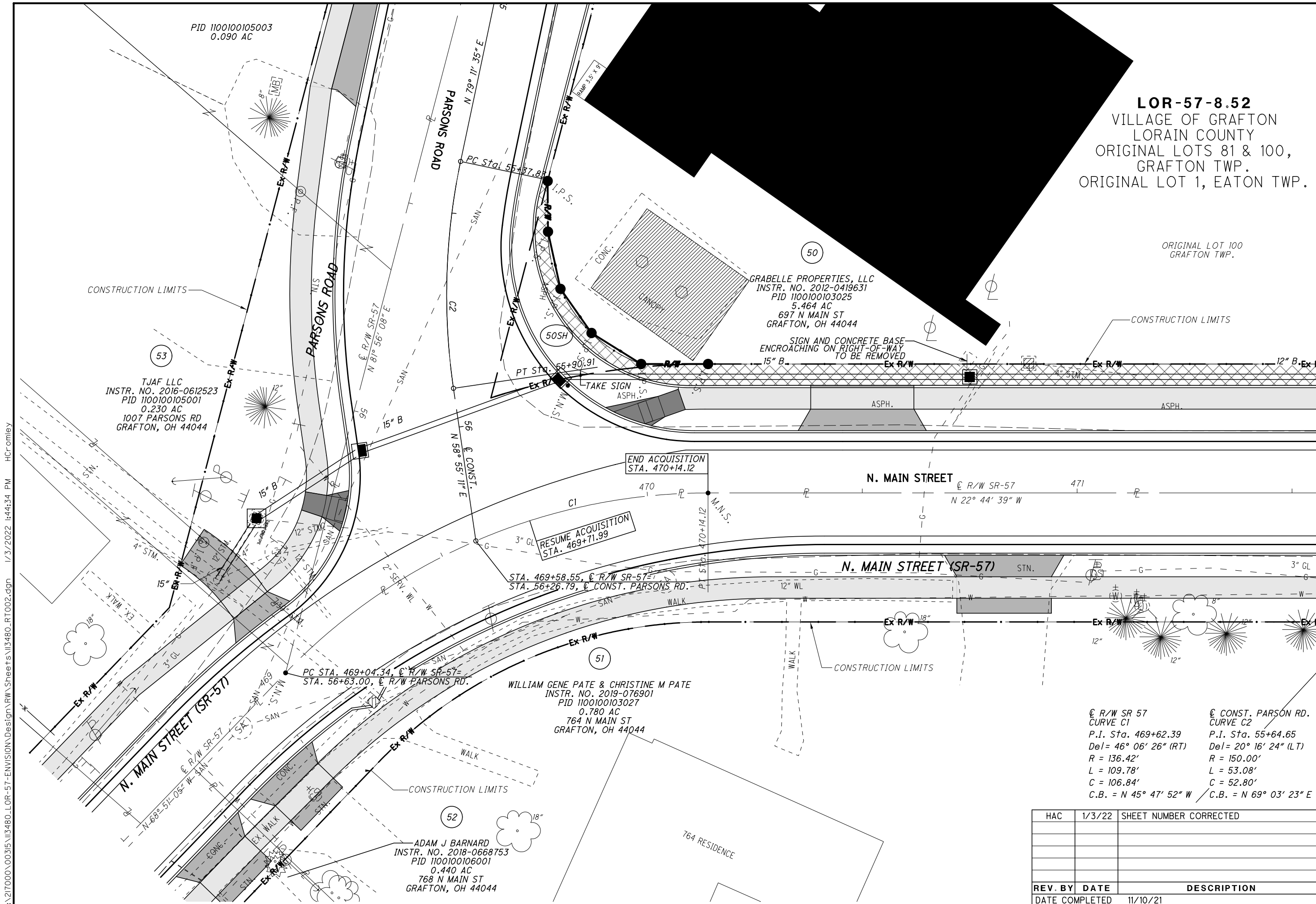
LOR-57-8.52

9 / 10

88
89

**LOR-57-8.52**  
 VILLAGE OF GRAFTON  
 LORAIN COUNTY  
 ORIGINAL LOTS 81 & 100,  
 GRAFTON TWP.  
 ORIGINAL LOT 1, EATON TWP.

ORIGINAL LOT 100  
 GRAFTON TWP.



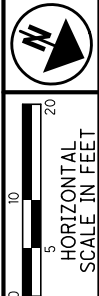
C R/W SR 57 CURVE C1 P.I. Sta. 469+62.39 Del = 46° 06' 26" (RT) R = 136.42' L = 109.78' C = 106.84' C.B. = N 45° 47' 52" W	C CONST. PARSON RD. CURVE C2 P.I. Sta. 55+64.65 Del = 20° 16' 24" (LT) R = 150.00' L = 53.08' C = 52.80' C.B. = N 69° 03' 23" E
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HAC	1/3/22	SHEET NUMBER CORRECTED
REV. BY	DATE	DESCRIPTION

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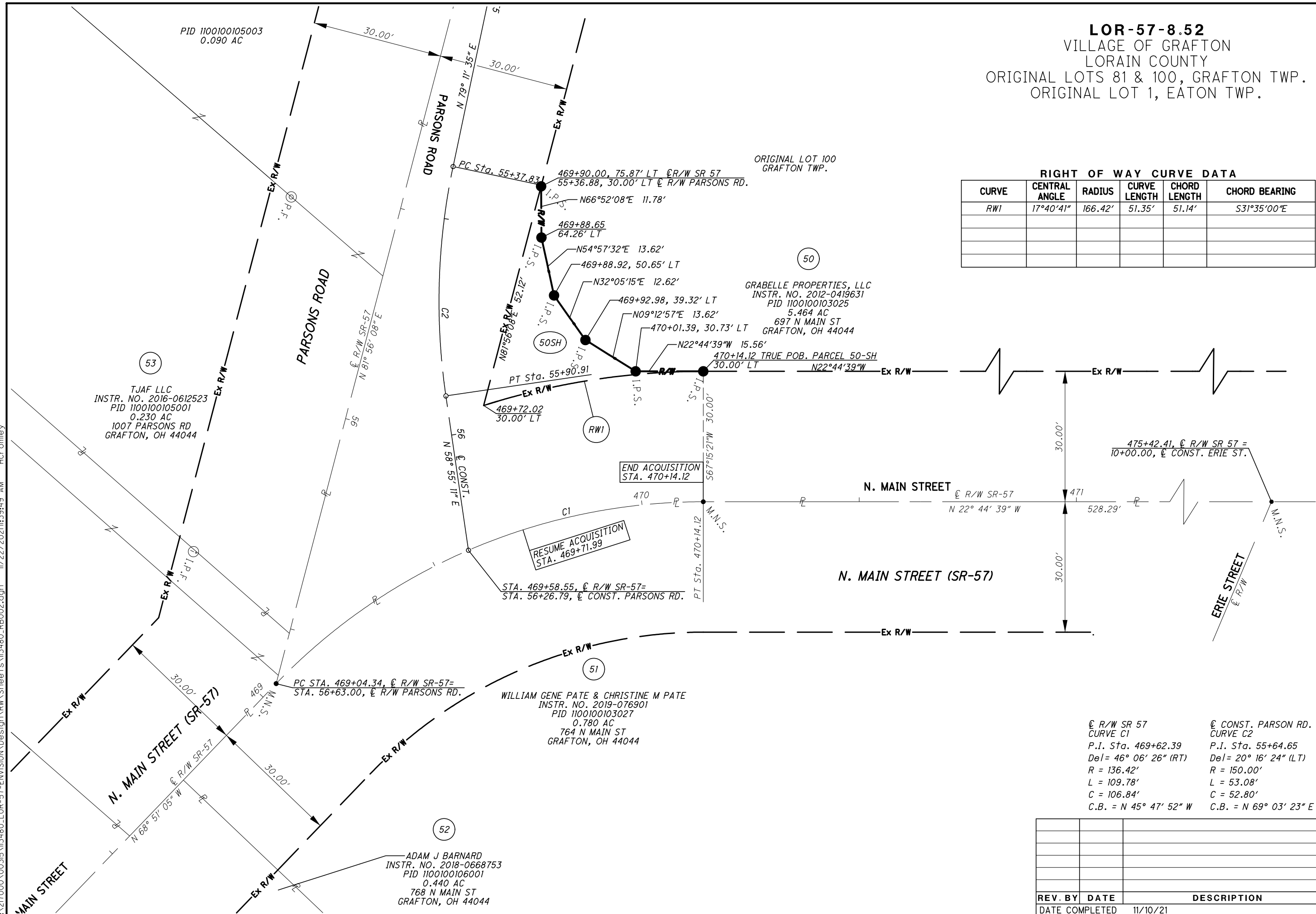
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**LOR-57-8.52**  
 VILLAGE OF GRAFTON  
 LORAIN COUNTY  
 ORIGINAL LOTS 81 & 100, GRAFTON TWP.  
 ORIGINAL LOT 1, EATON TWP.



**RIGHT OF WAY CURVE DATA**

CURVE	CENTRAL ANGLE	RADIUS	CURVE LENGTH	CHORD LENGTH	CHORD BEARING
RW1	17°40'41"	166.42'	51.35'	51.14'	S31°35'00"E



**RIGHT OF WAY BOUNDARY SHEET**  
**STA. 468+50 TO STA. 471+25**  
**ENVISION PHASE 1**  
**LOR-57-8.52**  
 PID NO. 113480  
 R/W DESIGNER: JJ  
 R/W REVIEWER: KCC  
 10/10  
 89  
 89

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 11/10/21