

STREET IMPROVEMENT PLANS FOR NOWLIN COURT AND PAULSON ROAD

**PARCEL MAP NO. 6492
STANISLAUS COUNTY, CALIFORNIA**

SPECIFICATIONS

GENERAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANISLAUS COUNTY DEPARTMENT OF PUBLIC WORKS AND ALL OTHER CODES OR REGULATIONS IN FORCE BY APPLICABLE GOVERNING AGENCIES.
- BENCHMARK : BENCHMARK IS A BRASS PLUG LOCATED AT THE NORTHWEST CORNER OF THE INTERSECTION OF LINWOOD AND JOHNSON ROAD, CITY OF TURLOCK BENCHMARK NUMBER 24-2-2. ELEVATION = 103.01
- WHERE PLANS OR SPECIFICATIONS DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS, IT IS UNDERSTOOD THAT ONLY FIRST QUALITY WORKMANSHIP AND MATERIALS ARE TO BE USED.
- THE CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING CONSTRUCTION, INCLUDING JOB SITE SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO WORKING HOURS. THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD HAWKINS & ASSOCIATES ENGINEERING HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH WORK PERFORMED ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF HAWKINS & ASSOCIATES ENGINEERING.
- THE EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY AND ARE BASED UPON INFORMATION PROVIDED BY UTILITY COMPANIES AND BY MEASUREMENT OF SURFACE FEATURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF THE LOCATION OF ALL UNDERGROUND FACILITIES AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH OCCUR DUE TO FAILURE TO LOCATE AND PRESERVE SUCH UTILITIES.
- CAUTION: CALL BEFORE YOU DIG. CALL UNDERGROUND SERVICE ALERT (USA) PRIOR TO TRENCHING, GRADING, EXCAVATION, DRILLING, BORING, SETTING POSTS, PLANTING TREES, ETC. USA WILL PROVIDE INFORMATION OR LOCATE AND MARK ANY UNDERGROUND UTILITIES. CALL USA, TOLL FREE AT 1 (800) 642-2444.
- CONTRACTOR SHALL LOCATE AND PRESERVE ALL FACILITIES INCLUDING GAS, WATER, IRRIGATION, SEWER, POWER, STREET LIGHTS, TELEPHONE, AND OTHERS WHICH MAY BE IN THE AREA OF CONSTRUCTION. RESPECTIVE UTILITY COMPANIES SHALL BE NOTIFIED PRIOR TO COMMENCEMENT OF WORK.
- ALL MANHOLE, LAMPHOLE, AND WATER VALVE CASTINGS AND COVERS SHALL BE ADJUSTED TO FINISH GRADE BY THE PAVING CONTRACTOR AFTER STREET IMPROVEMENTS ARE COMPLETE.
- ENCROACHMENT PERMIT SHALL BE OBTAINED FROM THE COUNTY OF STANISLAUS BEFORE BEGINNING WORK.
- LINE AND GRADES : ALL DISTANCES AND MEASUREMENTS ARE GIVEN AND WILL BE MADE IN A HORIZONTAL PLANE. GRADES ARE GIVEN FROM THE TOP OF STAKES OR NAILS, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL STAKES AND CONTROL POINTS PROVIDED FOR PROJECT CONSTRUCTION. EXPENSES INCURRED FOR THE REPLACEMENT OF SUCH STAKES OR CONTROL POINTS SHALL BE BORN BY THE CONTRACTOR.
- THE CONTRACTOR SHALL PROVIDE, AT HIS EXPENSE, APPROPRIATE DUST CONTROL AS REQUIRED FOR THE PREVENTION AND/OR ALLEVIATION OF DUST NUISANCE DURING THE COURSE OF PROJECT CONSTRUCTION.
- THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS PERTAINING TO HIS OPERATIONS. HE SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG MEN OR OTHER DEVICES NECESSARY FOR PUBLIC SAFETY. THE CONTRACTOR'S ATTENTION IS CALLED TO THE REQUIREMENTS OF TITLE 8, CALIFORNIA ADMINISTRATIVE CODE, SUBCHAPTER 4, ARTICLE 6, "EXCAVATIONS, TRENCHES, EARTHWORK".
- THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 9, SECTION 6705, 6706 AND 6707 OF THE STATE LABOR CODE. THE CONTRACTOR SHALL SUBMIT, FOR APPROVAL, A DETAILED PLAN SHOWING DESIGN OF ALL SHORING, BRACING, SLOPE CUTS AND OTHER PROVISIONS FOR WORKER PROTECTION IN AREAS OF EXCAVATION EXCEEDING FIVE FEET IN DEPTH. IF SUCH PLAN VARIES FROM SHORING SYSTEM STANDARDS, THE PLANS SHALL BE PREPARED BY A REGISTERED CIVIL OR STRUCTURAL ENGINEER.

GRADING NOTES

- AFTER CLEARING THE SITE AND DISKING, THE EXPOSED SOIL SURFACE SHOULD BE SCARIFIED AND RECOMPACTED TO A MINIMUM DEPTH OF 12". THE RECOMMENDED DEGREE OF RECOMPACTION IS 90% IN AREAS TO BE COVERED WITH ASPHALT PAVING. THIS PERCENTAGE REFERS TO THE MAXIMUM DRY DENSITY AS OBTAINED BY ASTM D-1557-78 TEST PROCEDURE.
- GENERAL CONTRACTOR SHALL COORDINATE THE WORK OF GRADING CONTRACTOR AND LANDSCAPE CONTRACTOR WITH RESPECT TO FINISH GRADING IN PLANTING AREAS. GRADING CONTRACTOR SHALL STOCKPILE APPROPRIATE YARDAGE FROM SITE PREPARATION FOR THIS USE. EXACT AMOUNT SHALL BE DETERMINED BY LANDSCAPE CONTRACTOR. THE DIRT STOCKPILED SHALL BE FREE FROM GRASS, WEEDS, AND OTHER DEBRIS. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINAL PLACEMENT AND GRADING IN MOUNDED AREAS.
- COMPACTION TESTS : CONTRACTOR TO PROVIDE COMPACTION TESTING AS REQUIRED BY STANISLAUS COUNTY, AT THE CONTRACTOR'S EXPENSE. AS A MINIMUM, ONE TEST SHALL BE PERFORMED IN THE PAVED AREAS. ALL TESTING MUST BE PERFORMED BY A LICENSED TESTING FIRM. ALL TEST RESULTS SHALL BE PROVIDED TO THE ENGINEER FOR REVIEW.

PAVING SPECIFICATIONS

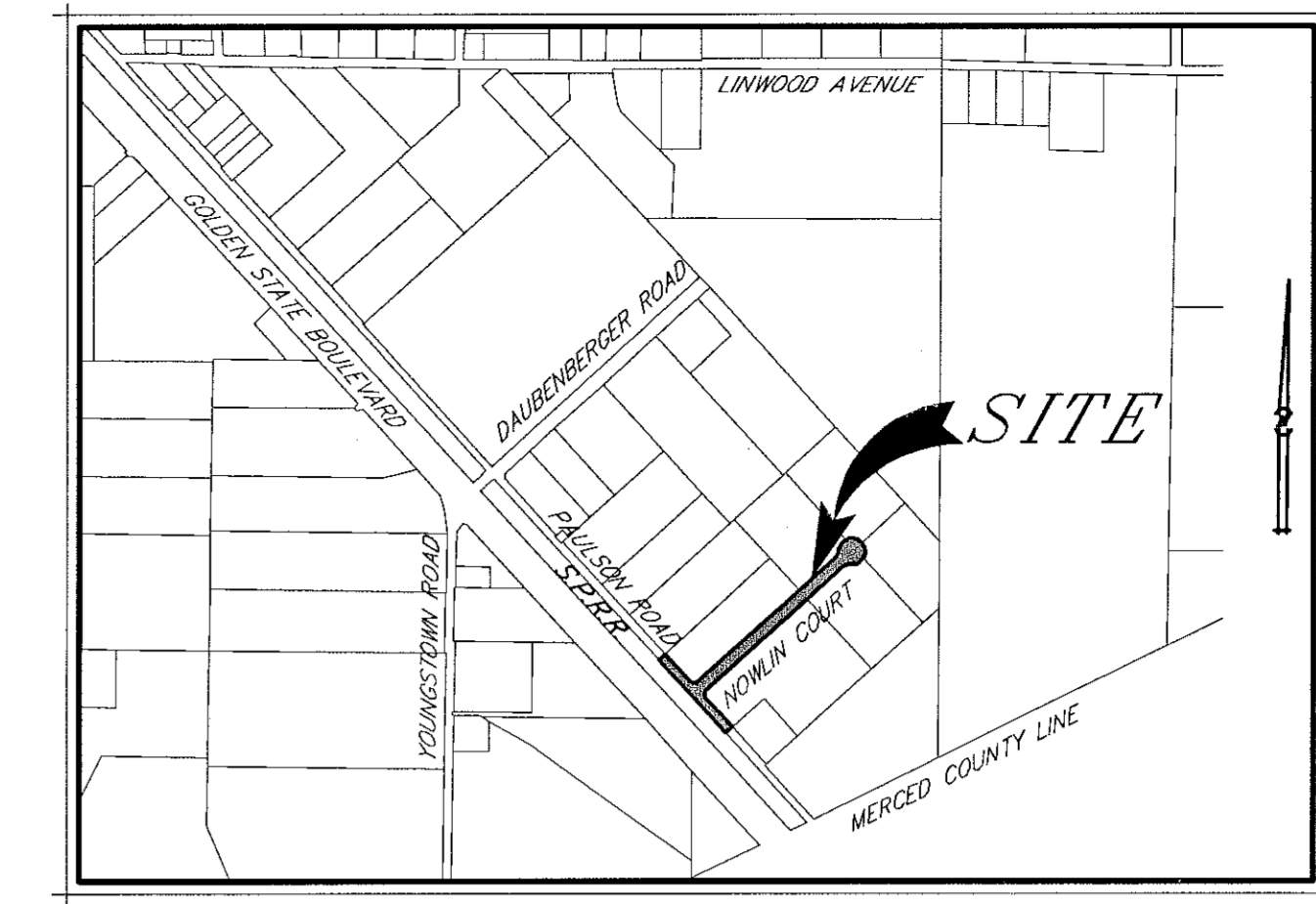
- SUBGRADE PREPARATION SHALL BE IN ACCORDANCE WITH SECTION 3.9 OF STANISLAUS COUNTY STANDARD SPECIFICATIONS. ANY TESTS ARE TO BE PERFORMED BY THE CONTRACTOR AT THE OWNER'S EXPENSE.
- A .35 FOOT MINIMUM THICK LAYER OF AGGREGATE BASE SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 3.10 OF STANISLAUS COUNTY STANDARD SPECIFICATIONS.
- A .45 FOOT MINIMUM THICK LAYER OF ASPHALT CONCRETE SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 3.12 OF THE STANISLAUS COUNTY STANDARD SPECIFICATIONS.

UTILITY NOTES

- ALL UTILITY WORK TO BE DONE SHALL BE DONE IN ACCORDANCE WITH STANISLAUS COUNTY'S STANDARD SPECIFICATIONS AND THE LATEST EDITION OF THE UNIFORM PLUMBING CODE.
- TESTING : ALL INDEPENDENT LABORATORY RETEST INSPECTIONS CALLED FOR BY THE COUNTY ENGINEER WILL BE PAID FOR BY THE CONTRACTOR.

STORM DRAIN SPECIFICATIONS

- REINFORCED CONCRETE PIPE (R.C.P.) SHOWN ON THE PLANS SHALL CONFORM TO SECTIONS 65-1.02, 65-1.02A, 65-1.03, 65-1.06, 65-1.07, AND 65-1.08 OF THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS OF THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION.
- AFTER PIPE HAS BEEN PROPERLY INSTALLED, THE INITIAL BACKFILL CONSISTING OF CLASS 2 AGGREGATE BASE, SHALL BE LAID IN 8" THICK LAYERS EXTENDING TO 30" OVER THE TOP OF THE PIPE MINIMUM, AND COMPACTED TO A RELATIVE DENSITY OF AT LEAST 95% (SEE STANISLAUS COUNTY STD. PLATE 3-11).
- ALL CONSTRUCTION SITE ACTIVITIES SHALL CONFORM TO THE STATE WATER RESOURCES CONTROL BOARD, NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES), WASTE DISCHARGE REQUIREMENTS FOR DISCHARGES OF STORM WATER RUNOFF ASSOCIATED WITH CONSTRUCTION ACTIVITY.

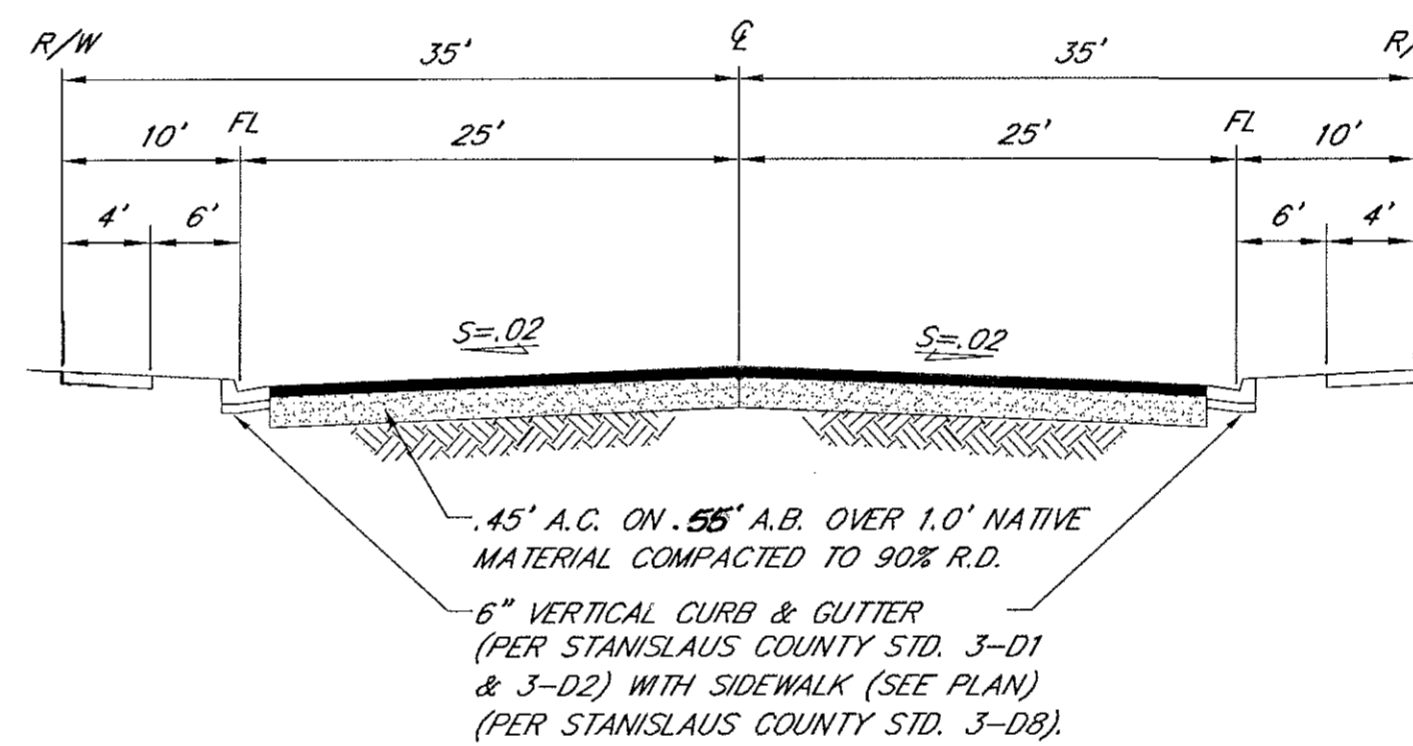


LOCATION MAP
NO SCALE

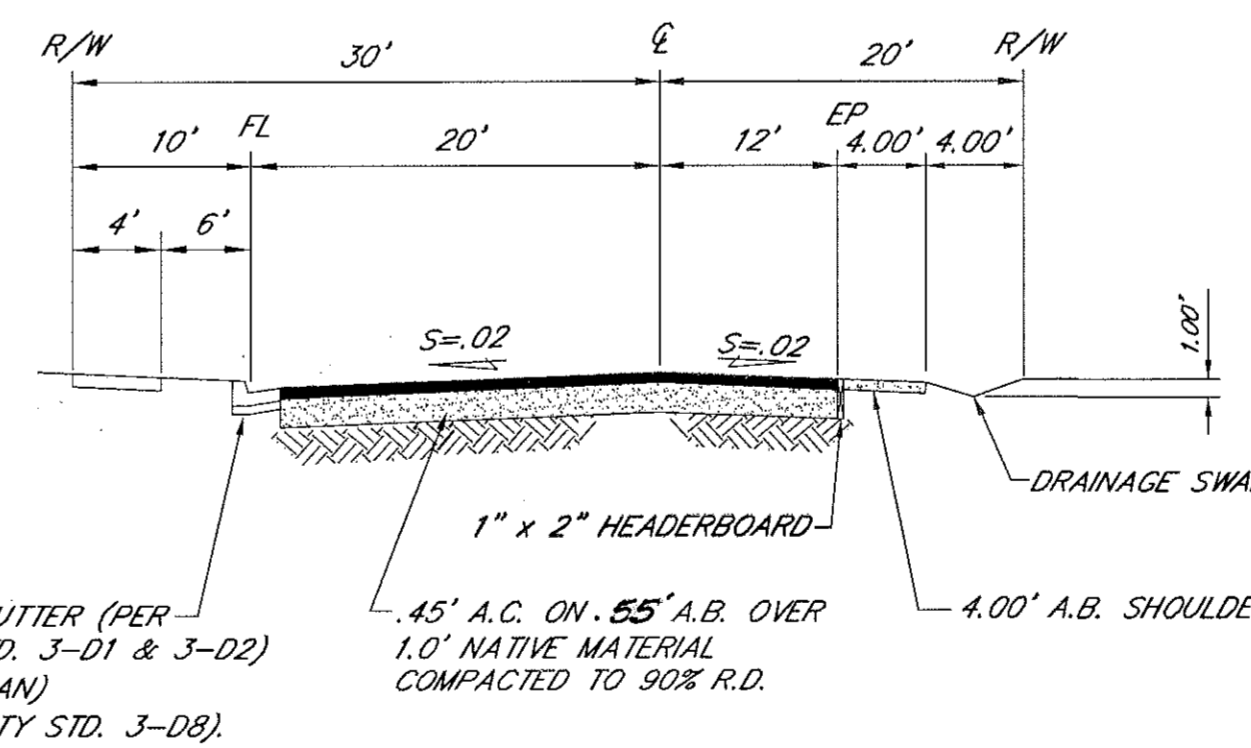
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- ST7. T.I.D. CONSTRUCTION DETAILS
- EC1. EROSION CONTROL PLAN

CONSTRUCTION DETAILS . . . STANDARDS AND SPECIFICATIONS
SEE STANISLAUS COUNTY
WHERE APPLICABLE.



NOWLIN COURT SECTION
NO SCALE



PAULSON ROAD SECTION
NO SCALE

N.O.I. ISSUED OCTOBER 28, 2004
W.D.I.D. 5550C330708

ELECTROLIER NOTES :

- ALL ELECTROLIERS, SHOWN ON THESE PLANS, SHALL BE ENERGIZED UPON THE FIRST ON-SITE DEVELOPMENT FOR PARCEL MAP NO. 6492.
- ALL ELECTRICAL PLANS REQUIRED FOR THE ELECTROLIER ENERGIZATION SHALL BE APPROVED BY THE TURLOCK IRRIGATION DISTRICT AND STANISLAUS COUNTY.
- THE CONTRACTOR SHALL INSTALL P.V.C. CONDUIT SLEEVES FOR FUTURE ELECTROLIER ENERGIZATION AS SHOWN ON THE PLANS.

APPROVED BY THE TURLOCK IRRIGATION DISTRICT, FOR IRRIGATION IMPROVEMENTS

BY: *William Boyer* DATE: 29 Jun 05

APPROVED BY STANISLAUS COUNTY CONSOLIDATED FIRE DEPARTMENT. NOTE: THE CITY OF TURLOCK DENIED A REQUEST FOR A WILL SERVE LETTER ON JUNE 17, 2005. NO FIRE HYDRANTS ARE PROPOSED ON THESE PLANS.

BY: *Shirley Kocum* DATE: 1-10-05

APPROVED BY STANISLAUS COUNTY DEPT. OF ENVIRONMENTAL RESOURCES.

BY: *Bella Badal* DATE: 7-20-05

APPROVED BY TURLOCK IRRIGATION DISTRICT, FOR STREET ELECTROLIERS ONLY.

"NOT REQUIRED"

BY: _____ DATE: _____

APPROVED BY THE STANISLAUS COUNTY DEPARTMENT OF PUBLIC WORKS.

BY: *John J. Janni* DATE: 7-22-05

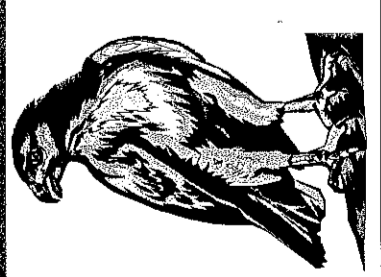
PROJECT NO.	R.C.E. 50188
DATE	R.C.E. 31900, L.S. 4709
BY	RODRICK H. HAWKINS
CHK	CROLIE E. LINDSAY
DATE	
SCALE	DESCRIPTION OF REVISION
JOB #	APPROVED
FILE	

BY	DRF	4/2005	NO SCALE	2481	STR_MP
CHK	JSM				
DATE					
SCALE					
JOB #					
FILE					

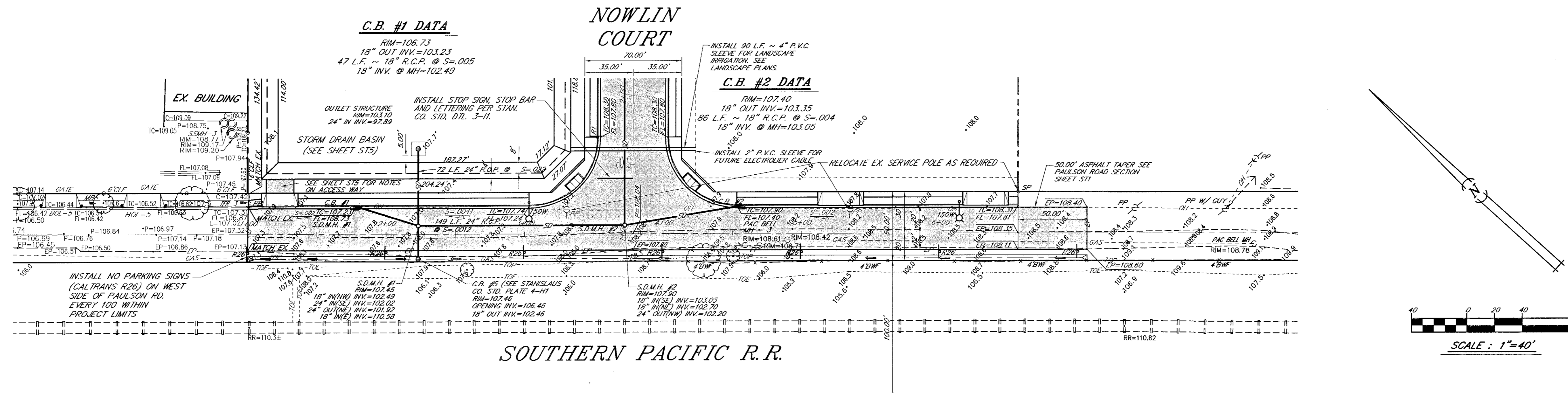
**VICINITY MAP, INDEX AND SPECIFICATIONS
STREET IMPROVEMENTS**

PACIFIC HOLT CORPORATION
STANISLAUS COUNTY, CALIFORNIA

**HAWKINS & ASSOCIATES
ENGINEERING**
436 MITCHELL RD.
MODESTO, CA 95354
PH: (209) 575 - 4295
FX: (209) 578 - 4295



SHEET
ST1.
OF
7.
2481



LEGEND

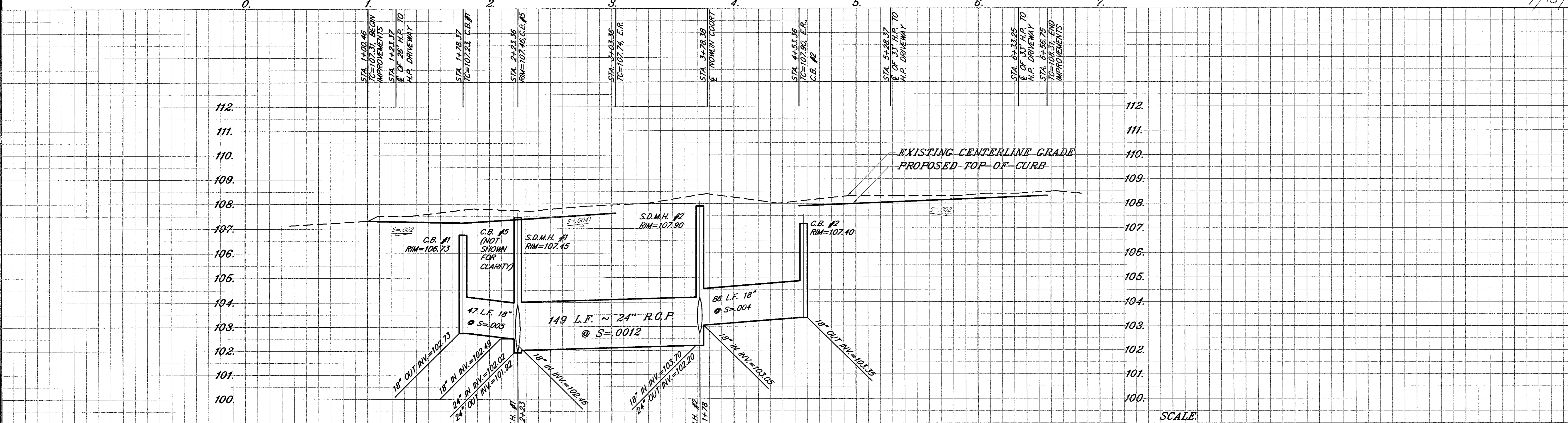
100.0	EXISTING GROUND ELEVATION	---TOP---	EXISTING TOP OF GRADE BREAK	SP	EXISTING JOINT POLE	PROPOSED AREA OF AC PAVING	IRR	PROPOSED IRRIGATION LINE
C=100.00	EXISTING CONCRETE ELEVATION	---TOE---	EXISTING TOE OF GRADE BREAK	PP	EXISTING POWER POLE	MAIVE MATERIAL SCHEDULED AND RECOMMENDED TO BE USED	AV	PROPOSED AIR VENT STAND PIPE (SEE T.I.D. STD. DTL. CS 144A)
TC=100.00	EXISTING TOP-OF-CURB ELEVATION	6"R.F.	EXISTING CHAIN LINK FENCE, HEIGHT AS NOTED	SP	EXISTING SERVICE POLE	SEE ST. 1-1	IRR BOX	PROPOSED IRRIGATION VALVE PRESSURE BOX (SEE T.I.D. STD. DTL. CS 105A)
P=100.00	EXISTING PAVEMENT ELEVATION	6"R.F. x	EXISTING BARBED WIRE FENCE, HEIGHT AS NOTED	PP	EXISTING POWER POLE W/ GUY WIRE	PROPOSED 6" VERTICAL CURB, GUTTER & SIDEWALK (SEE STAN. CO. STD. DTL. 3-08)	100W	PROPOSED STREET ELECTROLIER, WATTAGE SHOWN (SEE STAN. CO. STD. DTL. 5-A, 5-B, 5-C, 5-D, & 5-E)
EP=100.00	EXISTING EDGE-OF-PAVEMENT ELEVATION	(Tree Symbol)	EXISTING TREE, SPREAD TO SCALE	GAS	EXISTING GAS LINE	PROPOSED CURB, GUTTER & SIDEWALK, WITH PARK STRIP		
FL=100.00	EXISTING FLOWLINE ELEVATION	(Sewer Symbol)	EXISTING SANITARY SEWER LINE	EL	EXISTING ELECTRICAL LINE	PROPOSED DRIVEWAY (SEE STAN. CO. STD. DTL. 3-F2)		
L=100.00	EXISTING LIP ELEVATION	SSMH	EXISTING SANITARY SEWER MANHOLE	TR	EXISTING TRANSFORMER	PROPOSED G.O. TYPE CATCH BASIN (SEE STAN. CO. STD. DTL. 4-G1)		
RIM=100.00	EXISTING RIM ELEVATION	30"TR	EXISTING IRRIGATION LINE	OH	EXISTING OVERHEAD LINE	PROPOSED INLET STRUCTURE USE S.D.M.H. WITH GRATE (SEE STAN. CO. STD. DTL. 4-F1)		
	EXISTING VERTICAL CURBING	AV	EXISTING AIR VENT STAND PIPE	TC=100.00	PROPOSED TOP-OF-CURB ELEVATION	PROPOSED STORM DRAIN LINE		
	EXISTING CURB & GUTTER	IRR BOX	EXISTING IRRIGATION BOX	P=100.00	PROPOSED PAVEMENT ELEVATION			
	EXISTING CURB, GUTTER & SIDEWALK, WITH PARK STRIP			EP=100.00	PROPOSED EDGE-OF-PAVEMENT ELEVATION			
	EXISTING VALLEY GUTTER			FL=100.00	PROPOSED FLOWLINE ELEVATION			
	EXISTING VALLEY GUTTER			RIM=100.00	PROPOSED RIM ELEVATION			
	EXISTING EDGE-OF-PAVEMENT							

CAUTION: UTILITY LOCATION NOTES

1. EXISTING UNDERGROUND UTILITIES ARE SHOWN AS THEY ARE BELIEVED TO EXIST. THE LOCATIONS SHOWN ARE BASED ON RECORD INFORMATION, PROVIDED BY OTHERS, AND BY FIELD LOCATION OF SURFACE FEATURES. THIS INFORMATION IS PROVIDED ONLY AS AN AID TO THE CONTRACTOR. THEREFORE, THE OWNER AND ENGINEER CANNOT ACCEPT RESPONSIBILITY FOR THE LOCATION AND/OR DESIGNATION OF EXISTING UNDERGROUND FACILITIES. PRIOR TO COMMENCING WORK THE CONTRACTOR SHALL HAVE EACH UTILITY COMPANY ACCURATELY LOCATE IN THE FIELD THEIR MAINS AND SERVICE LINES. CONTRACTOR SHALL VERIFY LOCATION (BOTH VERTICAL AND HORIZONTAL) OF ALL EXISTING UNDERGROUND FACILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES OR CONFLICTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES, SO THAT NO DAMAGE RESULTS TO THEM DURING THE PERFORMANCE OF HIS WORK. AT LEAST 48 HOURS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL CONTACT U.S.A. AT 1-800-642-2444.

2. SECTION 1540 (A) (1) OF THE CONSTRUCTION SAFETY ORDERS (TITLE 8 CALIFORNIA ADMINISTRATION CODE SECTION 1540) ISSUED BY THE OCCUPATIONAL SAFETY AND HEALTH STANDARDS BOARD PURSUANT TO THE CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT OF 1973, AS AMENDED, STATES:

"PRIOR TO OPENING AN EXCAVATION EFFORT SHALL BE MADE TO DETERMINE WHETHER UNDERGROUND INSTALLATIONS, I.E. SEWER, WATER, FUEL, ELECTRIC LINES, ETC., WILL BE ENCOUNTERED AND IF SO, WHERE SUCH UNDERGROUND INSTALLATIONS ARE LOCATED. WHEN EXCAVATION APPROACHES THE APPROXIMATE LOCATION OF SUCH AN INSTALLATION, THE EXACT LOCATION SHALL BE DETERMINED BY CAREFUL PROBING OR HAND DIGGING AND WHEN IT IS UNCOVERED, ADEQUATE PROTECTION SHALL BE PROVIDED FOR THE INSTALLATION. ALL KNOWN OWNERS OF UNDERGROUND FACILITIES IN THE AREA CONCERNED SHALL BE ADVISED OF PROPOSED WORK AT LEAST 48 HOURS PRIOR TO THE START OF ACTUAL EXCAVATION."



CONSTRUCTION STAKING LIABILITY WAIVER

THESE IMPROVEMENT PLANS HAVE BEEN PREPARED WITH THE INTENT THAT THE FIRM OF HAWKINS & ASSOCIATES ENGINEERING WILL BE PERFORMING THE CONSTRUCTION STAKING FOR THE COMPLETE PROJECT. IF, HOWEVER, ANOTHER ENGINEERING AND/OR SURVEYING FIRM SHOULD BE EMPLOYED TO USE THESE PLANS FOR THE PURPOSE OF CONSTRUCTION STAKING, NOTICE IS HEREBY GIVEN THAT THE FIRM OF HAWKINS & ASSOCIATES ENGINEERING WILL NOT ASSUME ANY RESPONSIBILITY FOR ERRORS OR OMISSIONS, IF ANY, WHICH MIGHT OCCUR AND WHICH COULD HAVE BEEN AVOIDED, CORRECTED OR MITIGATED IF HAWKINS & ASSOCIATES ENGINEERING HAD PERFORMED THE STAKING WORK.

CALL USA, TOLL FREE 800-642-2444

BEFORE PLANTING TREES, BENCHING, POST HOLE, BLASTING, GRADING, EXCAVATING, BORING, DRILLING, ETC. CALL UNDERGROUND SERVICE ALERT FOR UNDERGROUND CLEARANCE. THEY WILL PROVIDE INFORMATION OF LOCATE AND MARK UNDERGROUND FACILITIES FOR YOU.

SCALE:
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 4'

HAWKINS & ASSOCIATES ENGINEERING
436 MITCHELL RD.
MODESTO, CA 95354
PH: (209) 575 - 4295
FX: (209) 578 - 4295

PACIFIC HOLT CORPORATION
STANISLAUS COUNTY, CALIFORNIA

PAULSON ROAD PLAN & PROFILE STREET IMPROVEMENTS

BY: DRE
CHK: JM
DATE: 4/2005
SCALE: 1"=40'
JOB #: 2481
FILE: STR_IMP

RCE: 5088
RCE: 31900, L.S. 4709

RODRICK H. HAWKINS
CROLE E. LINDSAY

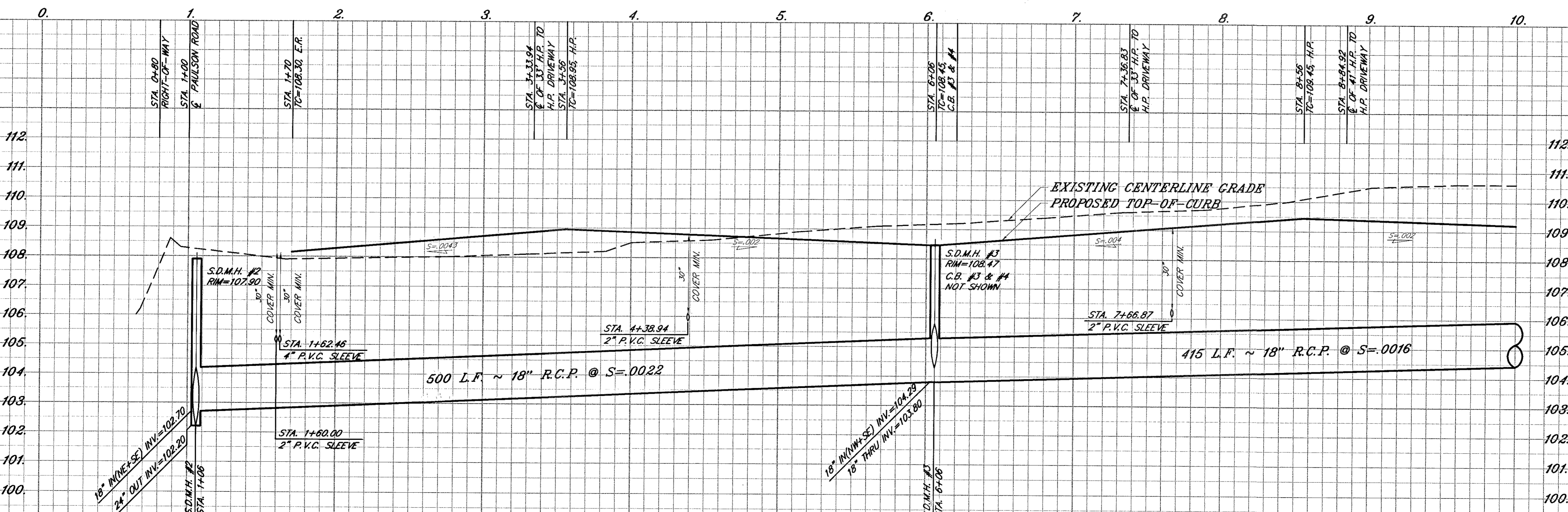
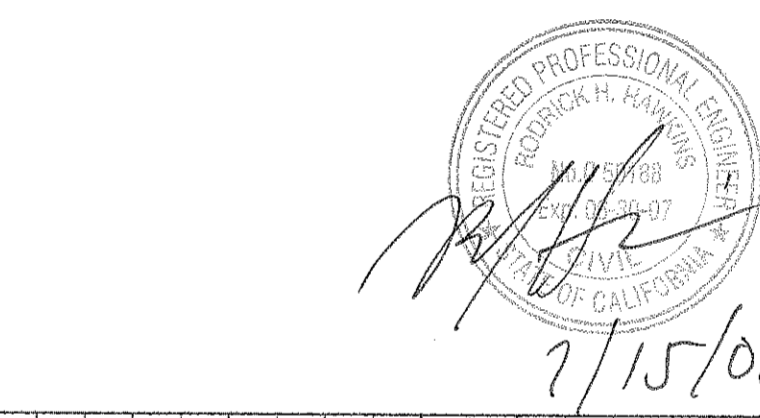
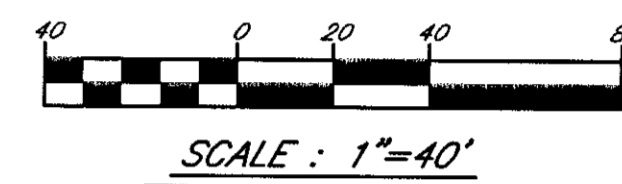
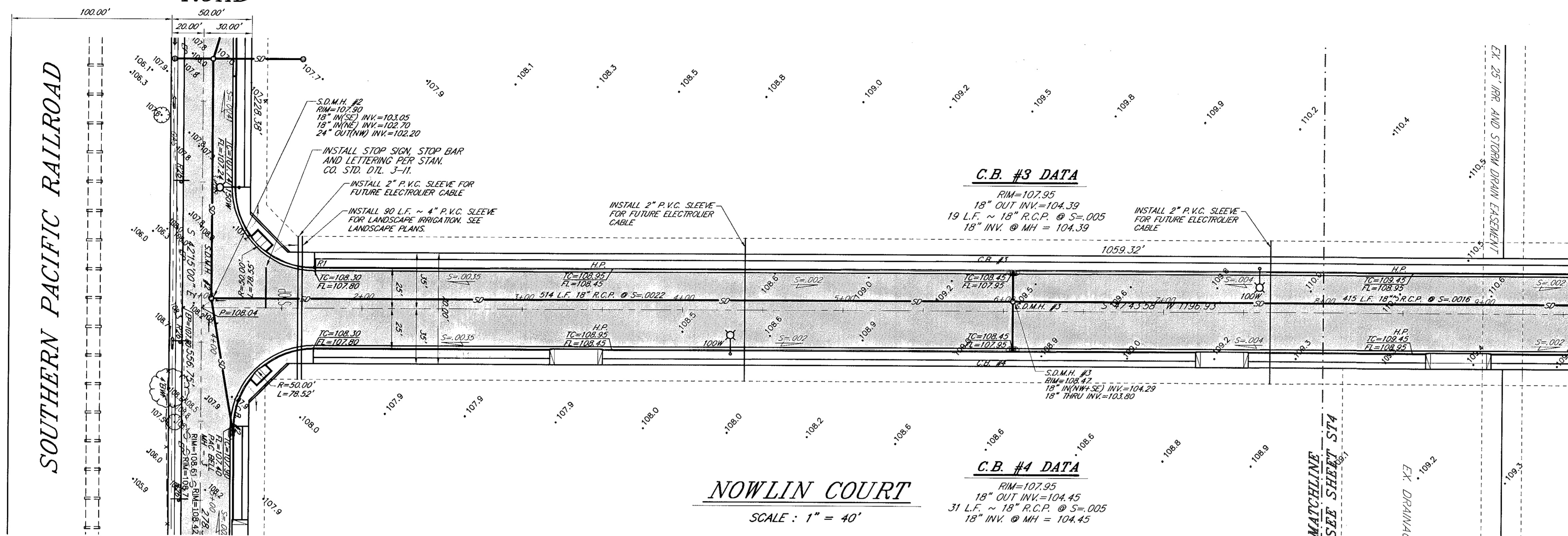
SYMBOL, DATE, DESCRIPTION OF REVISION, APPD.

SHEET OF 7.

2481

PAULSON ROAD

SOUTHERN PACIFIC RAILROAD

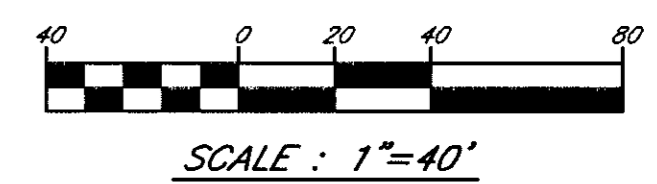
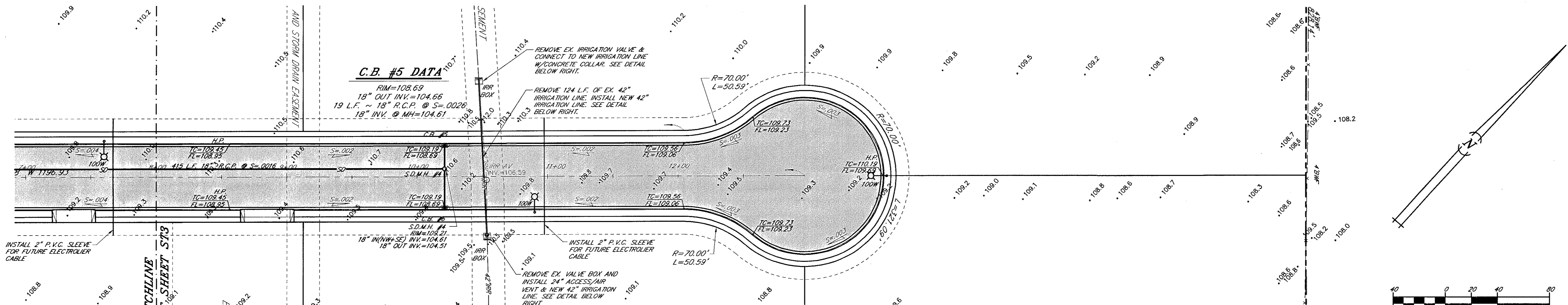


CONSTRUCTION STAKING LIABILITY WAIVER
 THESE IMPROVEMENT PLANS HAVE BEEN PREPARED WITH THE INTENT THAT THE FIRM OF HAWKINS & ASSOCIATES ENGINEERING WILL BE PERFORMING THE CONSTRUCTION STAKING FOR THE COMPLETE PROJECT. IF, HOWEVER, ANOTHER ENGINEERING AND/OR SURVEYING FIRM SHOULD BE EMPLOYED TO USE THESE PLANS FOR THE PURPOSES OF CONSTRUCTION STAKING, NOTICE IS HEREBY GIVEN THAT THE FIRM OF HAWKINS & ASSOCIATES ENGINEERING WILL NOT ASSUME ANY RESPONSIBILITY FOR ERRORS OR OMISSIONS, IF ANY, WHICH MIGHT OCCUR AND WHICH SHOULD HAVE BEEN AVOIDED, CORRECTED OR MITIGATED IF HAWKINS & ASSOCIATES ENGINEERING HAD PERFORMED THE STAKING WORK.

CALL USA, TOLL FREE 800-642-2444
 BEFORE PLANTING TREES, TRENCING, POST HOLES, BOLLARDS, SIGNING, CURB CURING, BORING, DRILLING, ETC. CALL UNDERGROUND SERVICE ALERT FOR UNDERGROUND UTILITY LOCATIONS. THEY WILL PROVIDE INFORMATION ON LOCAL AND MANY UNDERGROUND FACILITIES FOR YOU.

SCALE:
 HORIZONTAL: 1" = 40'
 VERTICAL: 1" = 4'

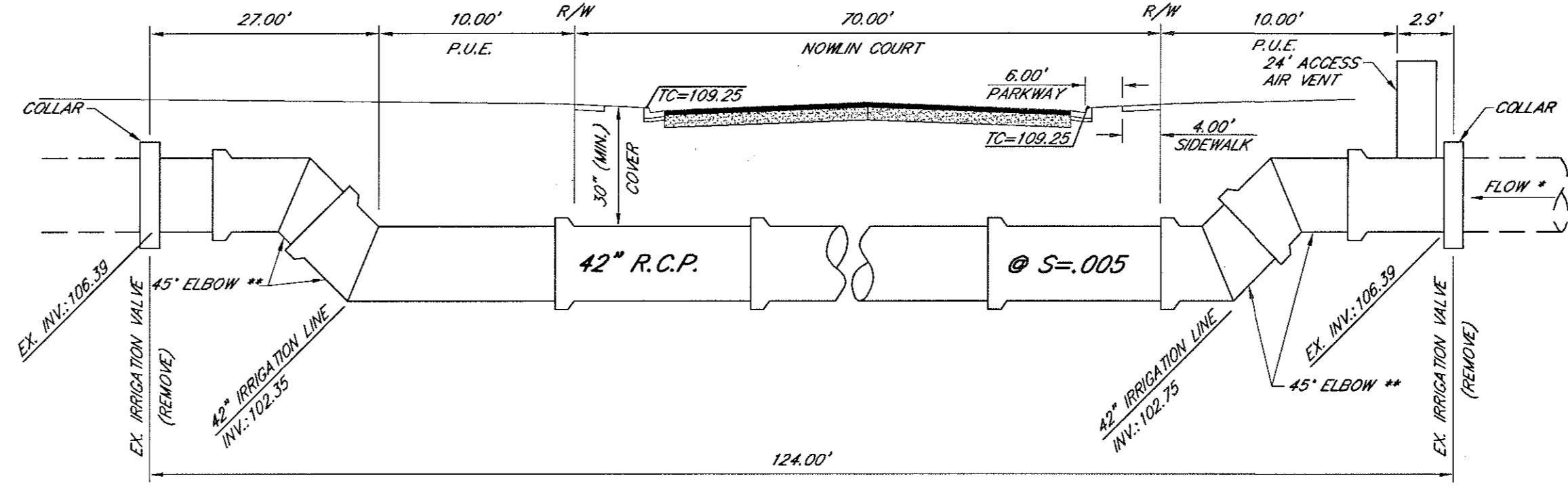
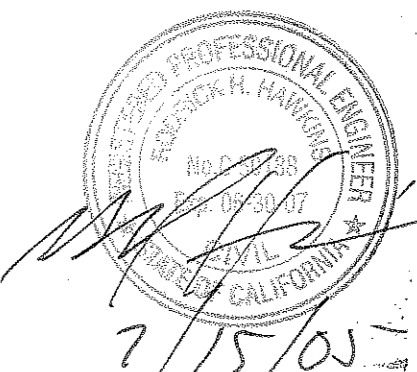
RCE: 50188 RCE: 3900, L.S. 4709	
BY: DRF	RODRICK H. HAWKINS
CHK: JM	CHLOIE E. LINDSAY
DATE: 4/2005	
SCALE: 1"=40'	DESCRIPTION OF REVISION
JOB #: 2481	DATE
FILE: STR_MP	APPD
NOWLIN COURT (STA. 0+00 - 8+00) PLAN & PROFILE STREET IMPROVEMENTS	
PACIFIC HOLT CORPORATION STANISLAUS COUNTY, CALIFORNIA	
HAWKINS & ASSOCIATES ENGINEERING 436 MITCHELL RD. MODESTO, CA. 95354 PH: (209) 575 - 4295 FX: (209) 578 - 4295	
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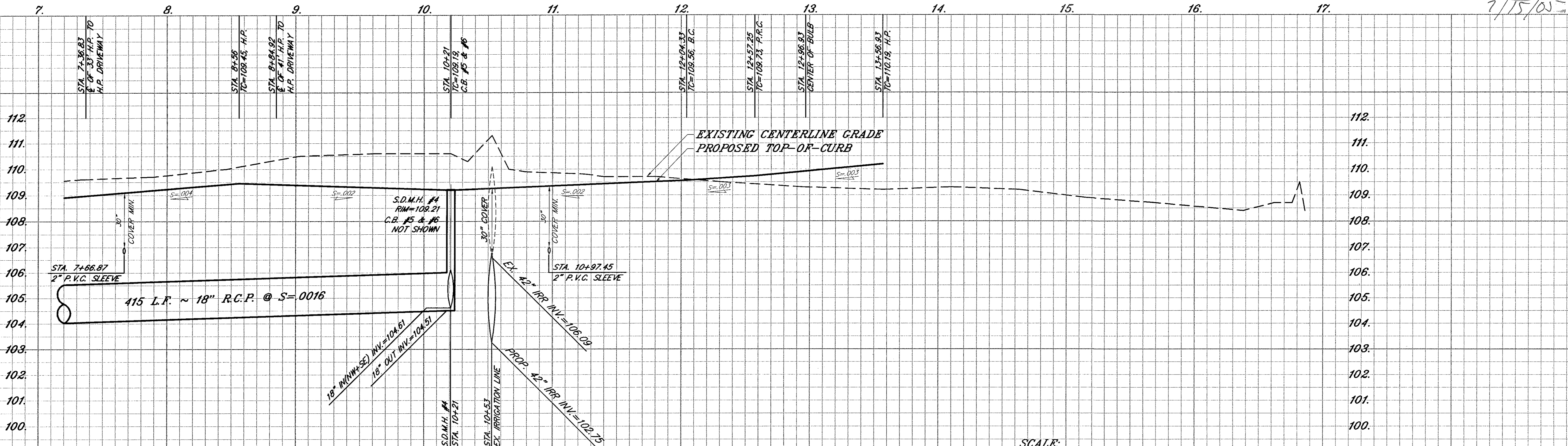
TURLOCK IRRIGATION DISTRICT STANDARD PLANS

DESCRIPTION:	PLAN NO.:
CONSTRUCTION SPECIFICATIONS	CS050B
CONCRETE PIPE DETAIL	CS100C
CONCRETE COLLAR	CS102A
ACCESS AND AIR VENT	CS107B

- NOTES:**
1. SAWCUT EXISTING PIPE PRIOR TO DEMOLITION.
 2. MAINTAIN MIN. 24" COVER TO TOP OF NEW PIPE.
 3. WATER FLOW IS FROM SOUTHEAST TO NORTHWEST.
 4. PROPOSED PIPE JOINTS SHOWN SCHEMATICALLY ONLY.
- ** INSTALL ELBOWS BEYOND BACK OF SIDEWALK



IRRIGATION RECONSTRUCTION DETAIL



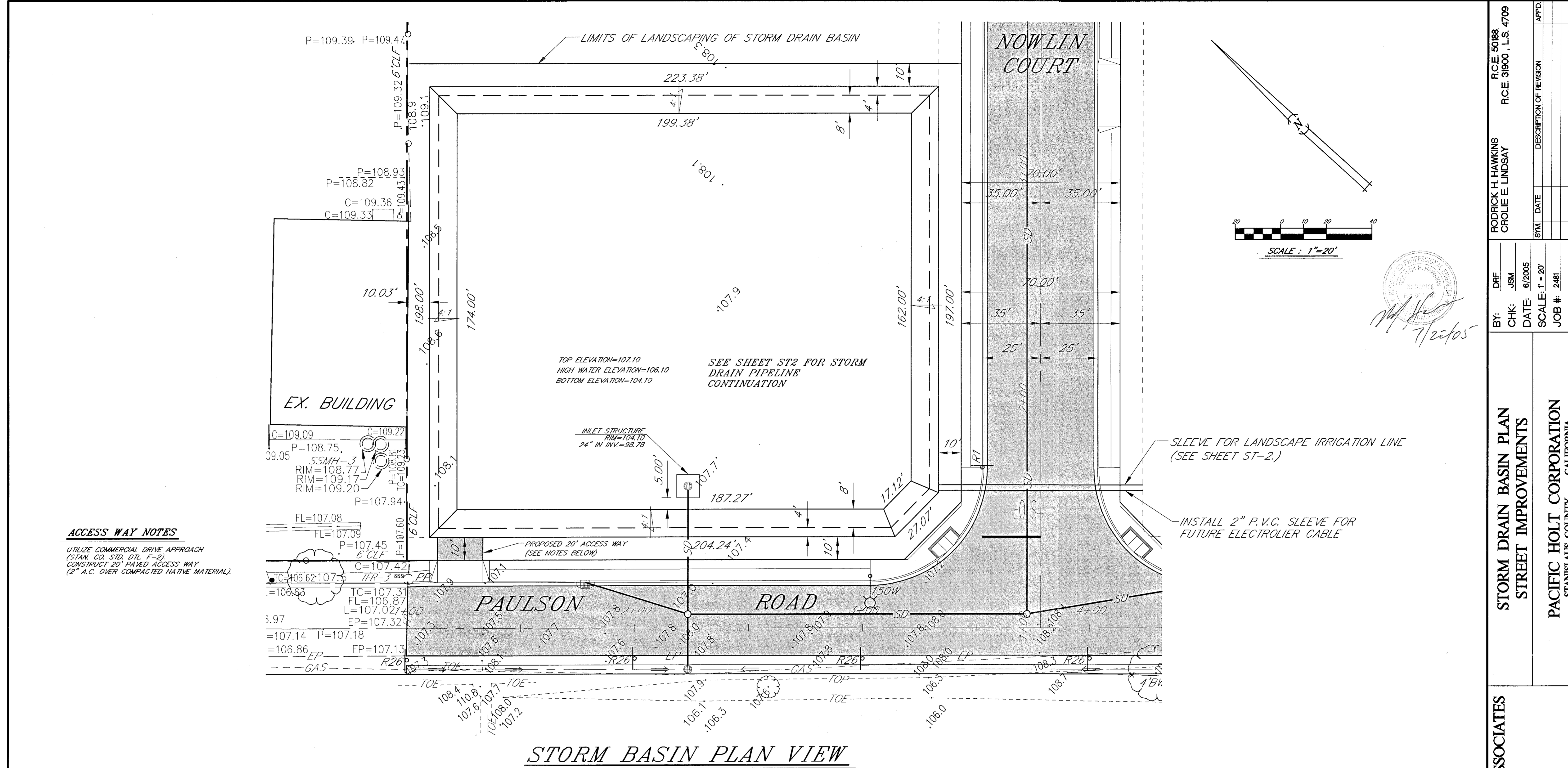
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CONSTRUCTION STAKING LIABILITY WAIVER
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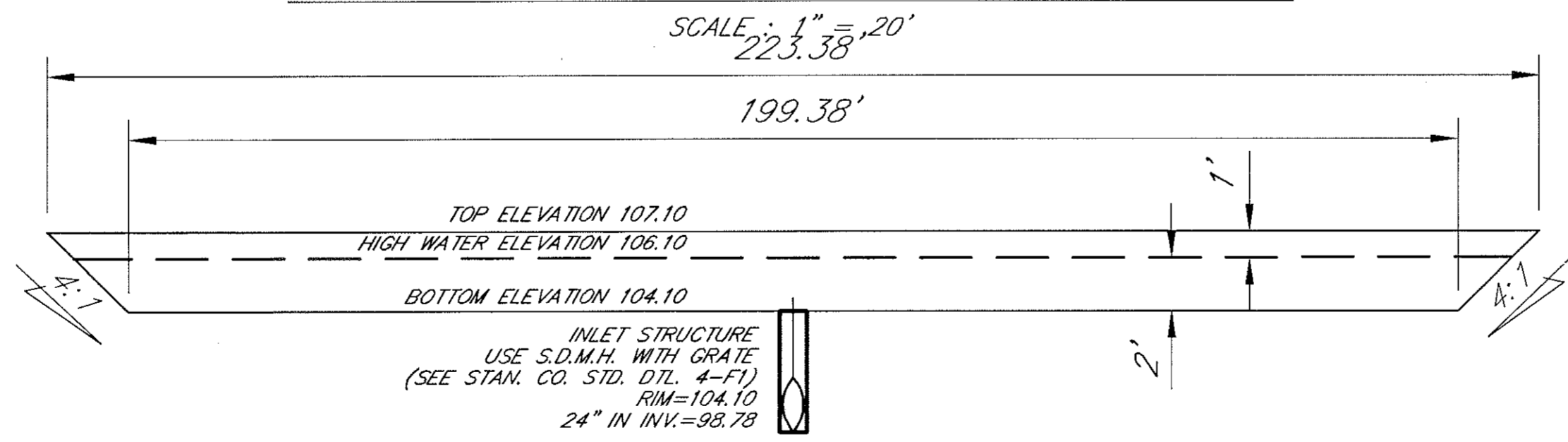
CALL USA, TOLL FREE
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BEFORE PLANTING TREES, BRANCHING POST-HOLING, BLASTING, GRADING, EXCAVATING, BORING, DRILLING, ETC. CALL UNDERGROUND SERVICE ALERT FOR UNDERGROUND CLEARANCE. THEY WILL PROVIDE INFORMATION TO LOCATE AND MARK UNDERGROUND FACILITIES FOR YOU.

BY: DRF	DATE: 4/2005	SCALE: 1"=40'	JOB #: 2481	FILE: STR_1MP
CHK: JM				
NOWLIN COURT (STA. 8+00 - 16+00) PLAN & PROFILE STREET IMPROVEMENT PACIFIC HOLT CORPORATION STANISLAUS COUNTY, CALIFORNIA				
HAWKINS & ASSOCIATES ENGINEERING 436 MITCHELL RD. MODESTO, CA 95354 PH: (209) 575 - 4295 FX: (209) 578 - 4295				
SHEET ST4. OF 7.				
RCE: 50188 RCE: 31900, L.S. 4709 RODRICK H. HAWKINS CROLE E. LINDSAY DESCRIPTION OF REVISION APPD.				



STORM BASIN PLAN VIEW



STORM DRAIN BASIN SUMMARY
 REQUIRED STORAGE VOLUME = 33,105.60 CU.FT.
 TOTAL STORAGE VOLUME PROVIDED = 75,476.0 CU.FT.
 1.0' FREEBOARD
 SIDE SLOPES = 4:1
 TOP ELEVATION = 107.10
 HIGH WATER ELEVATION = 106.10
 BOTTOM ELEVATION = 104.10

CAUTION: UTILITY LOCATION NOTES

- EXISTING UNDERGROUND UTILITIES ARE SHOWN AS THEY ARE BELIEVED TO EXIST. THE LOCATIONS SHOWN ARE BASED ON RECORDED INFORMATION PROVIDED BY OTHERS, AND BY FIELD LOCATION OF SURFACE FEATURES. THIS INFORMATION IS PROVIDED ONLY AS AN AID TO THE CONTRACTOR. THEREFORE, THE OWNER AND ENGINEER CANNOT ACCEPT RESPONSIBILITY FOR THE LOCATION AND/OR DESIGNATION OF EXISTING UNDERGROUND FACILITIES. PRIOR TO COMMENCING WORK THE CONTRACTOR SHALL HAVE EACH UTILITY COMPANY ACCURATELY LOCATE IN THE FIELD THEIR MAINS AND SERVICE LINES. CONTRACTOR SHALL VERIFY LOCATION (BOTH VERTICAL AND HORIZONTAL) OF ALL EXISTING UNDERGROUND FACILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES OR CONFLICTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES, SO THAT NO DAMAGE RESULTS TO THEM DURING THE PERFORMANCE OF HIS WORK. AT LEAST 48 HOURS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL CONTACT U.S.A. AT 1-800-642-2444.
- SECTION 1540 (A) (1) OF THE CONSTRUCTION SAFETY ORDERS (TITLE 8 CALIFORNIA ADMINISTRATION CODE SECTION 1540) ISSUED BY THE OCCUPATIONAL SAFETY AND HEALTH STANDARDS BOARD PURSUANT TO THE CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT OF 1973, AS AMENDED, STATES:
 PRIOR TO OPENING AN EXCAVATION, EFFORT SHALL BE MADE TO DETERMINE WHETHER UNDERGROUND INSTALLATIONS, I.E. SEWER, WATER, FUEL, ELECTRIC LINES, ETC., WILL BE ENCOUNTERED AND IF SO, WHERE SUCH UNDERGROUND INSTALLATIONS ARE LOCATED. WHEN EXCAVATION APPROACHES THE APPROXIMATE LOCATION OF SUCH AN INSTALLATION, THE EXACT LOCATION SHALL BE DETERMINED BY CAREFUL PROBING OR HAND DIGGING AND WHEN IT IS UNCOVERED, ADEQUATE PROTECTION SHALL BE PROVIDED FOR THE INSTALLATION. ALL KNOWN OWNERS OF UNDERGROUND FACILITIES IN THE AREA CONCERNED SHALL BE ADVISED OF PROPOSED WORK AT LEAST 48 HOURS PRIOR TO THE START OF ACTUAL EXCAVATION.

CONSTRUCTION STAKING LIABILITY WAIVER

THESE IMPROVEMENT PLANS HAVE BEEN PREPARED WITH THE INTENT THAT THE FIRM OF HAWKINS & ASSOCIATES ENGINEERING WILL BE PERFORMING THE CONSTRUCTION STAKING FOR THE COMPLETE PROJECT. IF, HOWEVER, ANOTHER ENGINEERING AND/OR SURVEYING FIRM SHOULD BE EMPLOYED TO USE THESE PLANS FOR THE PURPOSE OF CONSTRUCTION STAKING, NOTICE IS HEREBY GIVEN THAT THE FIRM OF HAWKINS & ASSOCIATES ENGINEERING WILL NOT ASSUME ANY RESPONSIBILITY FOR ERRORS OR OMISSIONS, IF ANY, WHICH MIGHT OCCUR AND WHICH COULD HAVE BEEN AVOIDED, CORRECTED OR MITIGATED IF HAWKINS & ASSOCIATES ENGINEERING HAD PERFORMED THE STAKING WORK.

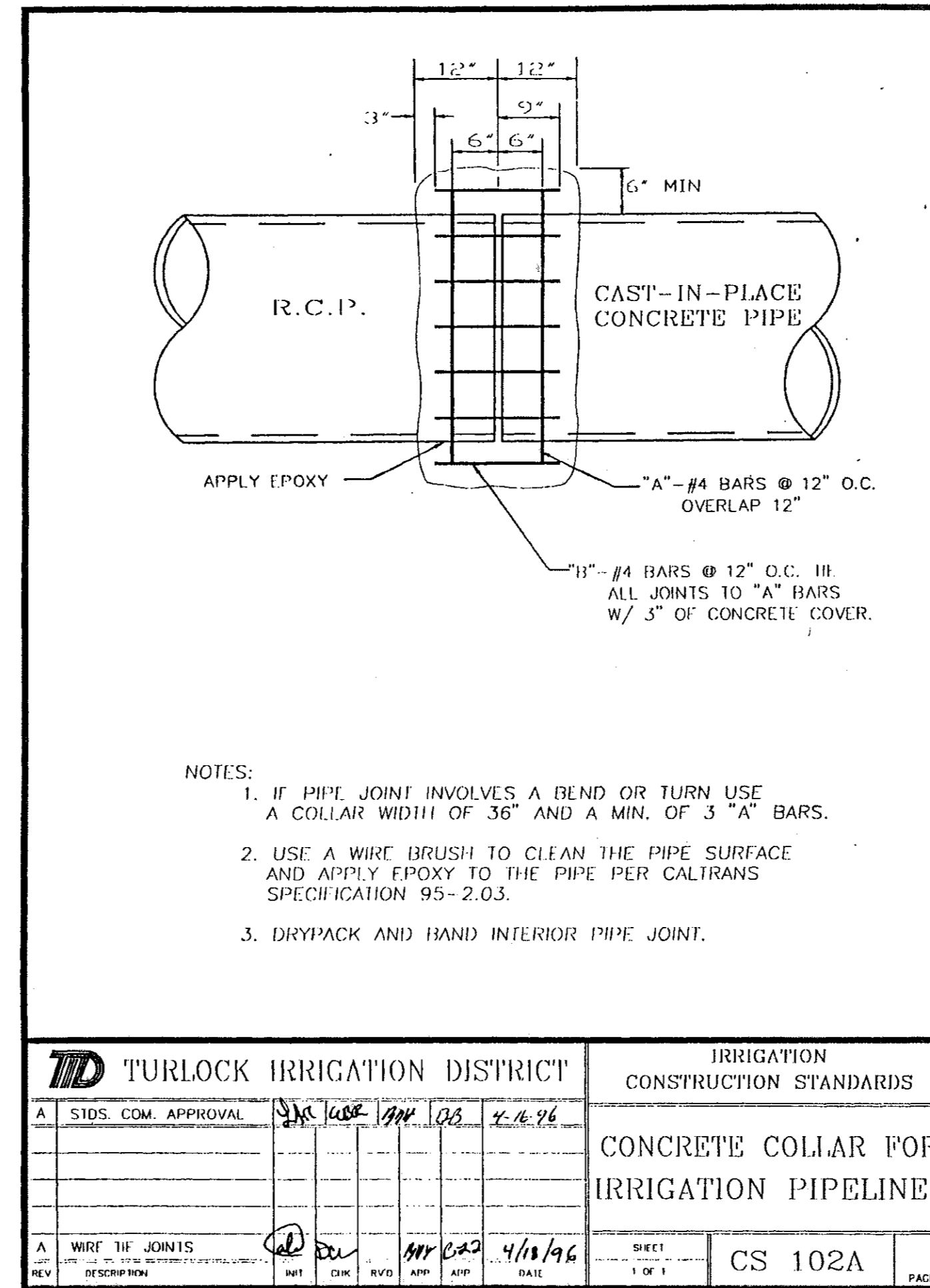
CALL USA, TOLL FREE 800-642-2444

BEFORE PLANTING TREES, TRENCHING, POST-HOLE, BLASTING, GRADING, EXCAVATING, BORING, DRILLING, ETC. CALL UNDERGROUND SERVICE ALERT FOR UNDERGROUND CLEARANCE. THEY WILL PROVIDE INFORMATION ON LOCATE AND MARK UNDERGROUND FACILITIES FOR YOU.

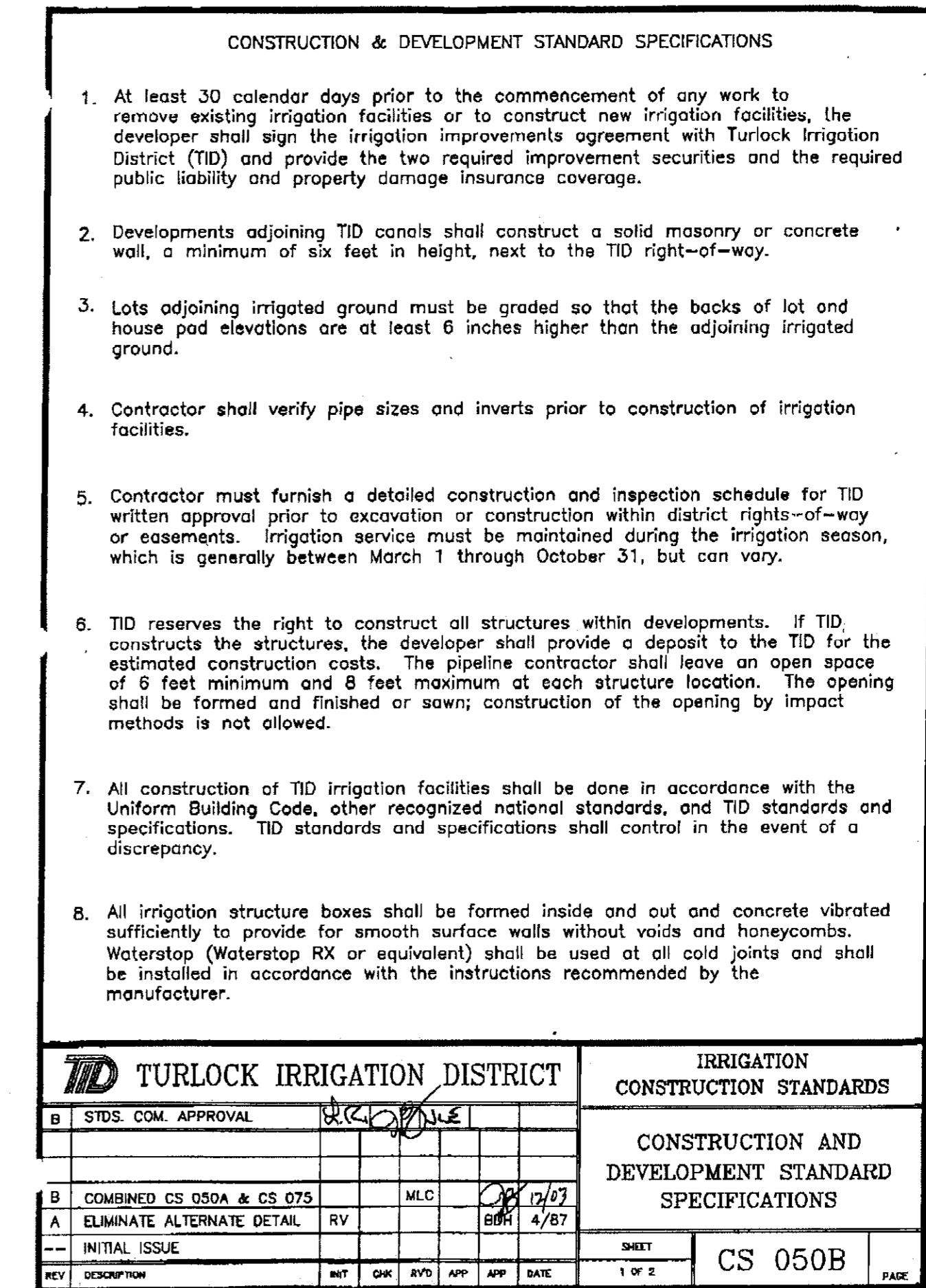
LANDSCAPE NOTES

- THE PROPOSED STORM DRAIN BASIN SHALL BE LANDSCAPED.
- SEE LANDSCAPE PLANS PREPARED BY POLHEMUS ENTERPRISES.

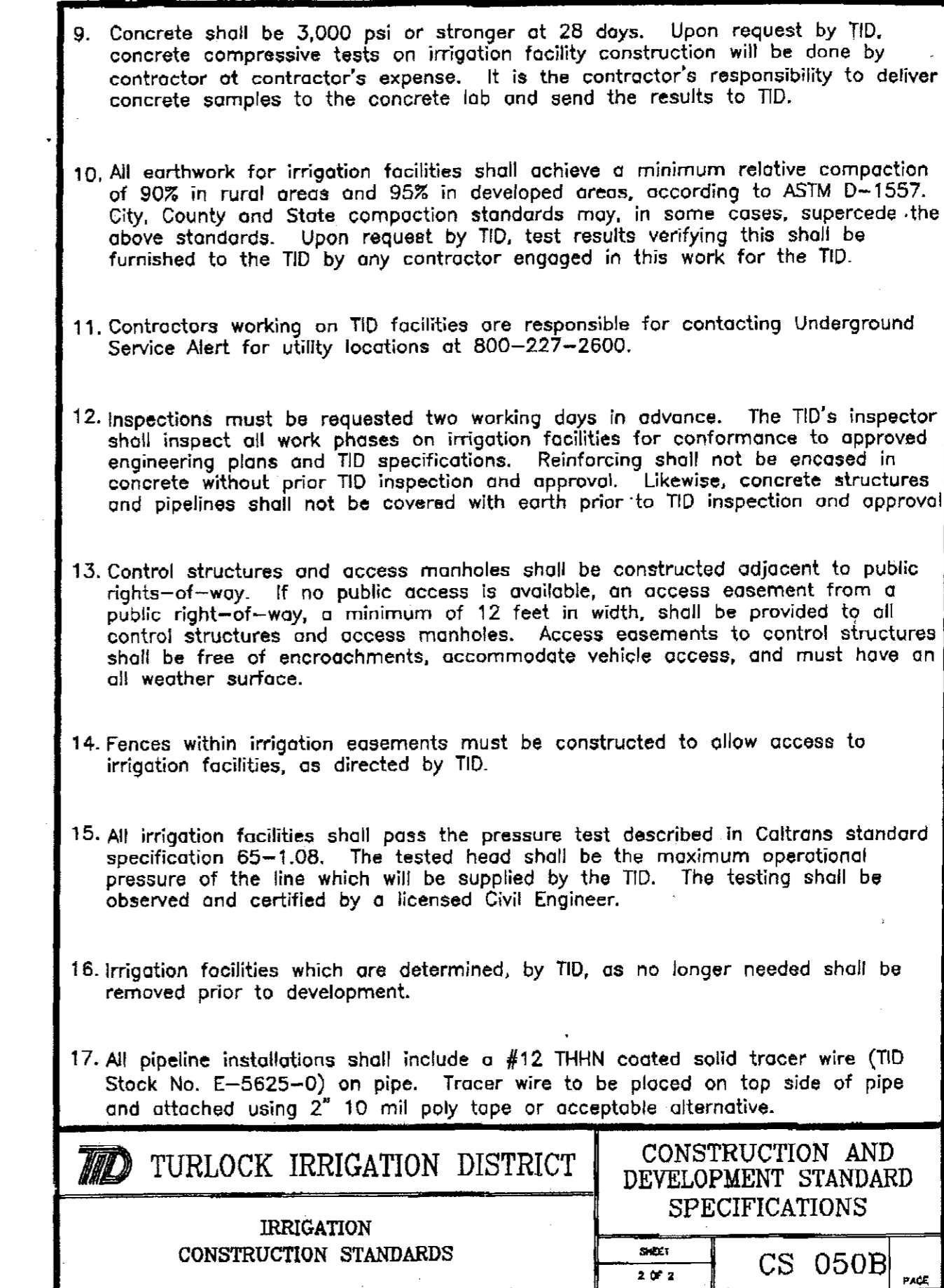
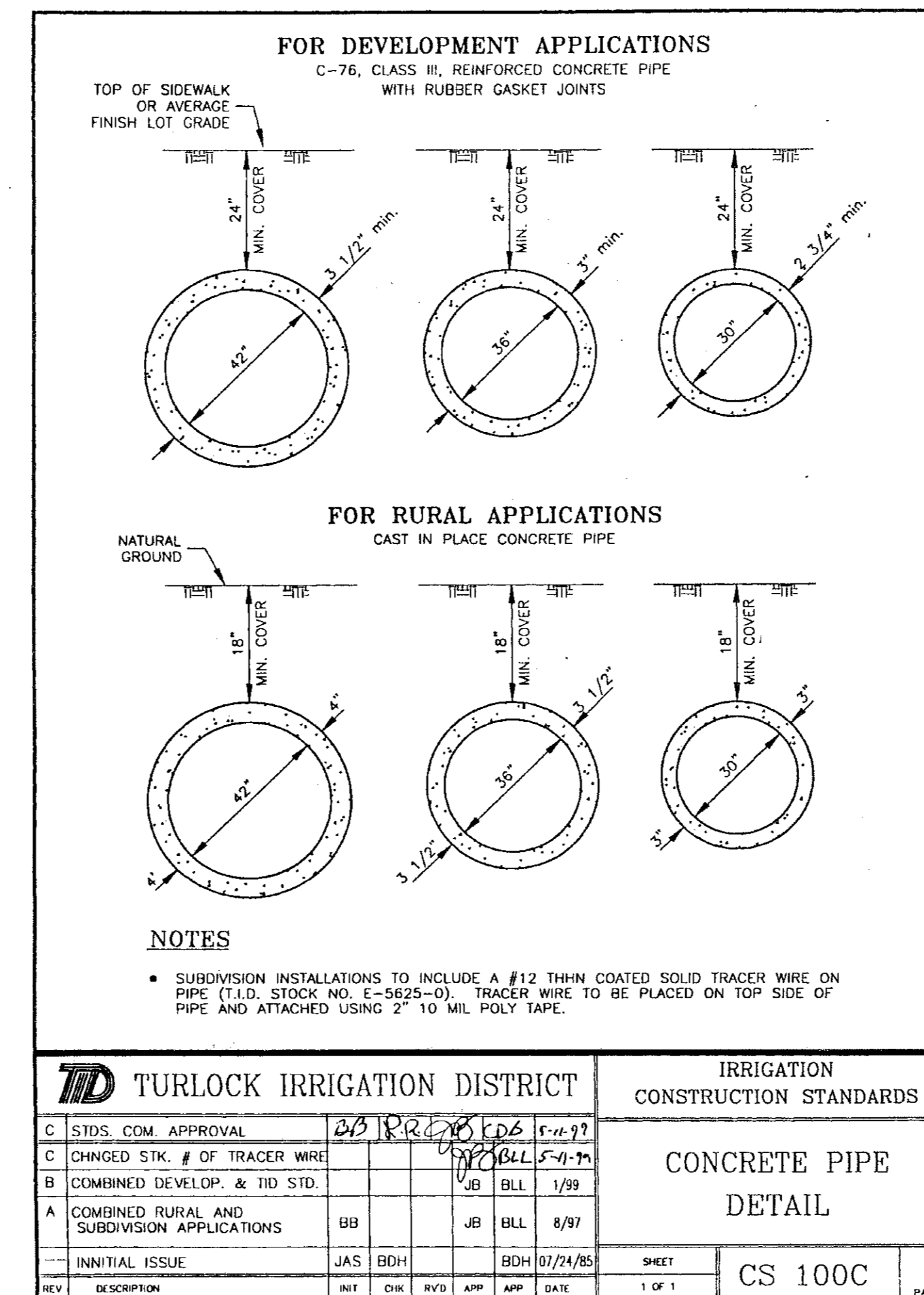
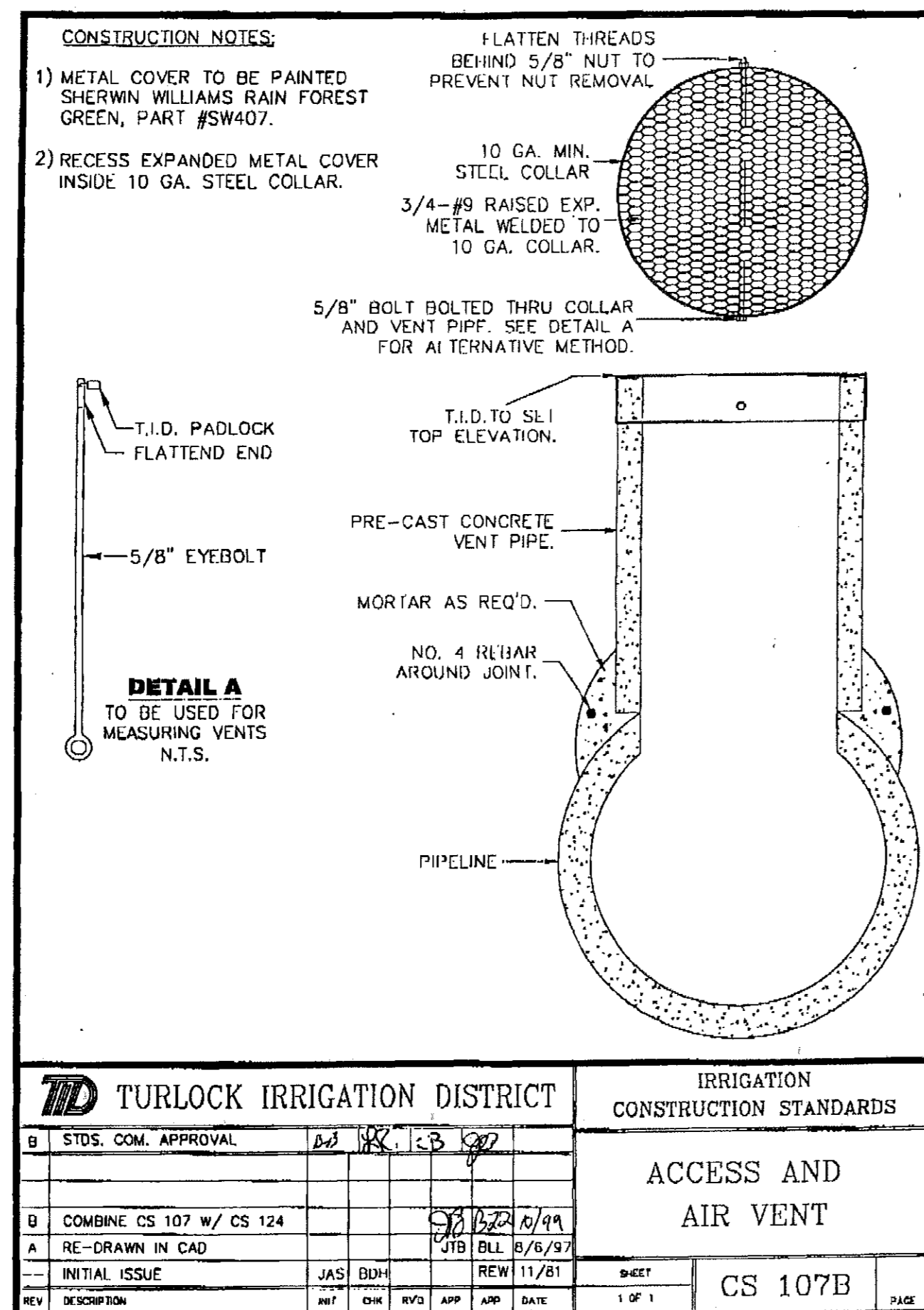
HAWKINS & ASSOCIATES ENGINEERING 436 MITCHELL RD. MODESTO, CA 95354 PH: (209) 575 - 4295 FX: (209) 578 - 4295		STORM DRAIN BASIN PLAN STREET IMPROVEMENTS		PACIFIC HOLT CORPORATION STANISLAUS COUNTY, CALIFORNIA	
BY: DRF CHK: JSM DATE: 6/2005 SCALE: 1" = 20' JOB #: 2481 FILE: STR_IMP	RODRICK H. HAWKINS CROLE E. LINDSAY R.C.E. 50188 R.C.E. 31900, L.S. 4709	SYM. DATE DESCRIPTION OF REVISION APPD	SYM. DATE DESCRIPTION OF REVISION APPD	SYM. DATE DESCRIPTION OF REVISION APPD	SYM. DATE DESCRIPTION OF REVISION APPD
SHEET ST5. OF 7. 2481		SCALE: 1"=20' SLEEVE FOR LANDSCAPE IRRIGATION LINE (SEE SHEET ST-2.) INSTALL 2" P.V.C. SLEEVE FOR FUTURE ELECTROLIER CABLE			



- NOTES:
- IF PIPE JOINT INVOLVES A BEND OR TURN USE A COLLAR WIDTH OF 36" AND A MIN. OF 3" "A" BARS.
 - USE A WIRE BRUSH TO CLEAN THE PIPE SURFACE AND APPLY EPOXY TO THE PIPE PER CALTRANS SPECIFICATION 95-2.03.
 - DRYPACK AND HAND INTERIOR PIPE JOINT.



- CONSTRUCTION & DEVELOPMENT STANDARD SPECIFICATIONS
- At least 30 calendar days prior to the commencement of any work to remove existing irrigation facilities or to construct new irrigation facilities, the developer shall sign the irrigation improvements agreement with Turlock Irrigation District (TID) and provide the two required improvement securities and the required public liability and property damage insurance coverage.
 - Developments adjoining TID canals shall construct a solid masonry or concrete wall, a minimum of six feet in height, next to the TID right-of-way.
 - Lots adjoining irrigated ground must be graded so that the backs of lot and house pad elevations are at least 6 inches higher than the adjoining irrigated ground.
 - Contractor shall verify pipe sizes and inverts prior to construction of irrigation facilities.
 - Contractor must furnish a detailed construction and inspection schedule for TID written approval prior to excavation or construction within district rights-of-way or easements. Irrigation service must be maintained during the irrigation season, which is generally between March 1 through October 31, but can vary.
 - TID reserves the right to construct all structures within developments. If TID constructs the structures, the developer shall provide a deposit to the TID for the estimated construction costs. The pipeline contractor shall leave an open space of 6 feet minimum and 8 feet maximum at each structure location. The opening shall be formed and finished or sawn; construction of the opening by impact methods is not allowed.
 - All construction of TID irrigation facilities shall be done in accordance with the Uniform Building Code, other recognized national standards, and TID standards and specifications. TID standards and specifications shall control in the event of a discrepancy.
 - All irrigation structure boxes shall be formed inside and out and concrete vibrated sufficiently to provide for smooth surface walls without voids and honeycombs. Waterstop (Waterstop RX or equivalent) shall be used at all cold joints and shall be installed in accordance with the instructions recommended by the manufacturer.



- Concrete shall be 3,000 psi or stronger at 28 days. Upon request by TID, concrete compressive tests on irrigation facility construction will be done by contractor at contractor's expense. It is the contractor's responsibility to deliver concrete samples to the concrete lab and send the results to TID.
- All earthwork for irrigation facilities shall achieve a minimum relative compaction of 90% in rural areas and 95% in developed areas, according to ASTM D-1557. City, County and State compaction standards may, in some cases, supersede the above standards. Upon request by TID, test results verifying this shall be furnished to the TID by any contractor engaged in this work for the TID.
- Contractors working on TID facilities are responsible for contacting Underground Service Alert for utility locations at 800-227-2500.
- Inspections must be requested two working days in advance. The TID's inspector shall inspect all work phases on irrigation facilities for conformance to approved engineering plans and TID specifications. Reinforcing shall not be encased in concrete without prior TID inspection and approval. Likewise, concrete structures and pipelines shall not be covered with earth prior to TID inspection and approval.
- Control structures and access manholes shall be constructed adjacent to public rights-of-way. If no public access is available, an access easement from a public right-of-way, a minimum of 12 feet in width, shall be provided to all control structures and access manholes. Access easements to control structures shall be free of encroachments, accommodate vehicle access, and must have an all weather surface.
- Fences within irrigation easements must be constructed to allow access to irrigation facilities, as directed by TID.
- All irrigation facilities shall pass the pressure test described in Caltrans standard specification 65-1.08. The tested head shall be the maximum operational pressure of the line which will be supplied by the TID. The testing shall be observed and certified by a licensed Civil Engineer.
- Irrigation facilities which are determined, by TID, as no longer needed shall be removed prior to development.
- All pipeline installations shall include a #12 THHN coated solid tracer wire (TID Stock No. E-5625-0) on pipe. Tracer wire to be placed on top side of pipe and attached using 2" 10 mil poly tape or acceptable alternative.

