



COUNTY OF SAN JOAQUIN

DEPARTMENT OF PUBLIC WORKS
P.O. BOX 1810-1810 E. HAZELTON AVENUE
STOCKTON, CALIFORNIA 95201
(209) 468-3000
FAX # (209) 468-9324

Permit No: PS-1502441
Date Issued: 08/26/2016
Start Date: 08/29/2016
Exp. Date: 08/29/2017
Project No: PWP231501
Quad: NW

ENCROACHMENT PERMIT

To: UNION PACIFIC RAILROAD
9451 ATKINSON STREET
ROSEVILLE, CA 95747

Encroachment Type:

Roadway construction and widening	traffic signal		
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Location:

McKinley and Industrial Intersection

In compliance with your request of 09/03/2015, permission is hereby granted to do work in County right-of-way as shown on attached application and subject to all the terms, conditions and restrictions written below or printed as general or special provisions on any part of this form. See reverse side and attached sheet, if any.

Trench excavations for service connections will not be permitted within ten feet (10') of pavement centerline unless otherwise approved by the Director. Surface of trench patches shall match in kind and be smooth and even with that of abutting surface. Special attention shall be given to depth of utilities through roadside area in anticipation of future drainage facilities, road profile and/or frontage development. All underground utility facilities are to be established and accurately dimensioned on sketches from surveyed centerline of road right of way, or from right of way (border) lines.

Permittee shall call the Department of Public Works, Field Engineering Division (Permit Inspections) at (209)953-7421 at least forty-eight hours prior to beginning any work within the County right of way. All work performed under this permit shall conform to the rules and regulations pertaining to safety established by the California Division of Industrial Safety and Cal-OSHA.

The jobsite shall be kept in a safe condition at all times by the daily removal of any excess dirt or debris which might be a hazard to either pedestrian or automobile traffic. All necessary traffic convenience and warning devices and personnel shall be provided, placed and maintained by and at the sole expense of the Permittee in accordance with the latest edition of the CALTRANS Manual of Traffic Control.

After completion of the work permitted herein, all debris, lumber, barricades, or any excess material shall be removed and the jobsite left in a neat workmanlike manner. Immediately following completion of construction permitted herein, Permittee shall fill out and mail notice of completion (see attached post card) provided by Grantor.

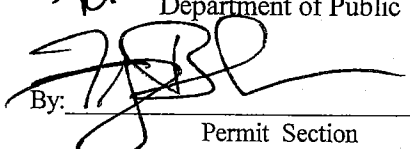
Special Comments:

See attached Special Conditions. No work is permitted within 30 feet of the top of bank of North Little Johns Creek, except for work within the footprint of the existing roadway.
Traffic Control Per MUTCD and approved traffic control drawings. The expected duration of road closure is 45 days, from approximately 8/29/16 to 10/13/16.

FORMS: SS/WW,R-29

Est. Permit Fee: \$32,100.00

WHITE -Permittee
GOLDENROD -PWD Central File
YELLOW -Field Inspection
PINK -Permit Section

for KRIS BALAJI, Director
Department of Public Works
By: 
Permit Section

ENCROACHMENT PERMIT GENERAL PROVISIONS

13-1

1. This permit is issued under and subject to all laws and ordinances of agencies governing the encroachment herein permitted. See the following references:

1. Division 1, Chapter 3
2. Division 2, Chapter 2, Section 942
3. Division 2, Chapter 4, Section 1126
4. Division 2, Chapter 5.5 and Chapter 6

SAN JOAQUIN COUNTY ORDINANCES NUMBERED: 324, 441, 648, 662, 672, 695, 700, 860, 892, 3359, and 3675.

2. It is understood and agreed by the Permittee that the performance of any work under this permit shall constitute an acceptance of all the provisions contained herein and failure on the Permittee's part to comply with any provision will be cause for revocation of this permit. Except as otherwise provided for public agencies and franchise holders, this permit is revocable on five days notice.
3. All work shall be done subject to the supervision of and the satisfaction of the grantor. The Permittee shall at all times during the progress of the work keep the County Highway in as neat and clean condition as is possible and upon completion of the work authorized herein, shall leave the County Highway in a thoroughly neat, clean and usable condition.
4. The Permittee also agrees by the acceptance of this permit to properly maintain any encroachment structure placed by the Permittee on any part of the County Highway and to immediately repair any damage to any portion of the highway, which occurs as a result of the maintenance of the said encroachment structure, until such time as the Permittee may be relieved of the responsibility for such maintenance by the County of San Joaquin.
5. The Permittee also agrees by the acceptance of this permit to make, at its own expense, such repairs as may be deemed necessary by the County Department of Public Works.
6. It is further agreed by the Permittee that whenever construction, reconstruction or maintenance work upon the highway is necessary, the installation provided for herein shall, upon request of the County Department of Public Works, be immediately moved or removed by and at the sole expense of the Permittee.
7. No material used for fill or backfill in the construction of the encroachment shall be borrowed or taken from within the County right of way.
8. All work shall be planned and carried out with as little inconvenience as possible to the traveling public. No material shall be stacked within eight feet (8') of the edge of the pavement or traveled way unless otherwise provided herein. Adequate provision shall be made for the protection of the traveling public. Traffic control standards shall be utilized including barricades, approved signs and lights, and flagmen, as required by the particular work in progress.
9. The Permittee, by the acceptance of this permit, shall assume full responsibility for all liability for personal injury or damage to property which may arise out of the work herein permitted or which may arise out of the failure of the Permittee to properly perform the work provided under this permit. In the event any claim of such liability is made against the County of San Joaquin or any department, official or employee thereof, the Permittee shall defend, indemnify, and hold each of them harmless for such claim.
10. All backfill material is to be moistened as necessary and thoroughly compacted with mechanical means. If required by the County Director of Public Works, such backfill shall consist of gravel or crushed rock. The Permittee shall maintain the surface over structures placed hereunder as may be necessary to insure the return of the roadway to a completely stable condition and until relieved of such responsibility by the County Department of Public Works. However a gravel, crushed rock or asphalt surface is removed or damaged in the course of work related to the permitted encroachment, such material shall either be separately stored and replaced in the roadway as nearly as possible in its original state or shall be replaced in kind, and the roadway shall be left in at least as good a condition as it was before the commencement of operations of placing the encroachment structure.
11. Whenever it becomes necessary to secure permission from abutting property owners for the proposed work, such authority must be secured by the Permittee prior to starting work.
12. The current and future safety and convenience of the traveling public shall be given every consideration in the location and methods of construction utilized.
13. The Permittee is responsible for the preservation of survey monuments located within the area of work herein permitted. Prior to the start of construction, survey monuments that potentially may be disturbed shall be located and referenced by a Licensed Land Surveyor, and a Corner Record filed with the County Surveyor. Any Survey Monuments disturbed during the course of construction shall be reestablished by a Licensed Land Surveyor and another Corner Record filed with the County Surveyor. (Land Surveyors' Act Section 8771)
14. Prior to any excavation, the Permittee shall notify USA North (Underground Service Alert of Northern California and Nevada) at 811 or 800-227-2600 forty-eight (48) hours in advance.

SPECIAL CONDITIONS FOR
ENCROACHMENT PERMIT

1. No work outside the footprint of the existing roadway is permitted within 30 feet of the top of bank of North Little Johns Creek. Prior to beginning any work, the limit of work must be marked in the field with orange safety barrier fencing, and the location of this fencing approved by the County Inspector.
2. The following agencies shall be notified in writing in advance of the planned road closure :
 - California Highway Patrol
 - San Joaquin County Sheriff's Department
 - Stockton Police Department
 - Lifecom (emergency dispatch)
 - Stockton Fire Department
 - French Camp McKinley Fire District
 - United States Post Office
3. Maintain traffic controls for all roads. Traffic control delays shall not exceed 15 minutes. For roads not subject to full closure, two-way traffic shall be maintained during non-working hours, with excavated areas backfilled or plated. During working hours, two-way traffic control shall be maintained with one lane open and flaggers.
4. Access to all properties shall be maintained at all times except when work is occurring at the access point. Minimal delays will be allowed to provide access within the work zone area. Driveway access shall be fully restored at the end of each workday. Driveways disturbed by the contractor shall be replaced with in-kind or better materials.
5. Residents and businesses shall be notified in writing, as approved by the County, at least 48 hours in advance of any impacts to their access.
6. At least 7 calendar days prior to any road closure, Changeable Message Signs (CMS) shall be in place advising of the dates of closure. Detour signs shall be maintained throughout the closure.
7. All destroyed or obliterated pavement markings must be replaced in kind by the permittee. Typical pavement markings include but not limited to lane lines, centerlines, stop and stop ahead legends, limit lines, raised pavement markers and miscellaneous delineators.
8. Any trenches and pavement transition areas shall be maintained in a smooth and even condition to the satisfaction of the County throughout the project limits at all times.
9. Areas of existing asphalt not being reconstructed and subject to pavement cuts shall receive a (1)-inch asphalt concrete overlay as per San Joaquin County Improvement Standards Section 2-5.0 Trench Cut Policy.
10. Final paving for road resurfacing shall be per Caltrans' specifications and shall not occur between November 1 and March 31, without prior authorization from the San Joaquin County Field Engineering Division (209-953-7421).

11. County roads shall be kept clean from mud and debris at all times along the access points and work zone areas during entire project. All standard roadway striping and signage shall be clearly visible, maintained and restored throughout the construction zone during and after the project.
12. The contractor shall not conduct construction operations in rain or heavy fog conditions.

APPLICATION FOR ENCROACHMENT PERMIT

PLEASE PRINT:

Date 6/24/15

To: San Joaquin County
Department of Public Works

SIEGFRIED ENGINEERING
(Applicant Name)

3244 BROOKSIDE RD STE. 100
(Mailing Address)

STOCKTON CA 95219
(City, State, Zip Code)

209-943-2021
(Area Code - Telephone Number)

OFFICE USE ONLY

JOB #	<u>231501</u>	REF #	
APN	<u>N/A</u>	CR #	
EXP. DATE	<u>8/25/17</u>		
VALID	<u>8/25/16</u> TO <u>8/25/17</u>	DRIVEWAYS:	
STREET	<u>McKinley and Industrial</u>	*	
AREA	<u>Stockton QUAD NW</u>	*	
TYPE	<u>Road reconstruction</u>	*	
FORMS	<u>SS/WW R-29</u>		
NOTES	<u>See special conditions.</u>		
	<u>Traffic control per MUTCD and</u>		
	<u>approved drawings.</u>		

Sketch (Detailed plans may be submitted)

See plans

The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on the East/West side of McKinley approximately 900 feet/mile feet of South of Clayton Ave, 1600 W of Sperry, by performing the following work (description of work):
Removal of 27,971 ± S.F. pavement to be replaced with higher traffic index rated AC. This stretch is approx 900' in length.

Work will commence on or about Fall 2015 for approximately 100 days.

I, the undersigned, certify that I am the owner of the respective property, or am qualified to represent the owner and agree to do the work described above in accordance with the rules and regulations of San Joaquin County and subject to inspection and approval.

Signature of Applicant - Title

Date

GENERAL PROVISIONS

GOVERNING INSTALLATION OF SUBSURFACE STRUCTURES AND PIPELINES WITHIN COUNTY ROAD RIGHTS-OF-WAY

PUBLIC CONVENIENCE AND SAFETY:

- A. Before obstructing any private driveway entrance or County road traveled way with a trench, spoil bank, equipment or other barrier permitted for any prolonged period of time, the Permittee shall notify the known users of the respective thoroughfare(s) involved, and shall provide access for vehicular and pedestrian traffic to and from the road.
 - 1. Unless otherwise permitted, all work shall be conducted in such a manner that no less than one lane of the existing County road traveled way will be maintained open to public traffic during working hours in a smooth and safe riding condition(s). Two lanes shall be open after working hours.
 - 2. In cases where road closure is permitted, the permission to close the road will be granted under the condition that the Permittee notify the following persons and/or agencies of the time, the period of closure, and the detour route at least twenty-four (24) hours prior to said road closure.
 - a. The County of San Joaquin Public Works Department
 - b. The County of San Joaquin Sheriff's Office
 - c. The local postal service
 - d. The local fire district
 - e. The local school district
 - f. The local residents involved
- B. Should hazardous conditions relative to the installation operations warrant flagmen, as many capable flagmen as may be necessary shall be provided by the Permittee and stationed in advance of work to warn and direct traffic.
- C. Lights, signs and barricades shall be furnished, erected and maintained by the Permittee for the adequate warning and convenience of the public, with particular attention to be taken in this regard after dark.
- D. Any excess dirt and/or debris which might be a hazard to either automobile or pedestrian traffic, uncontrollable by lights, signs and barricades, shall be removed from the jobsite daily.

STRUCTURES:

- A. Walls of structures shall be such quality and strength that they will resist all pressures and will not crack or be deformed in such a way as to create a hazard or maintenance problem at any time. Therefore, the minimum structural requirements for concrete pipe placed under county road rights-of-way shall conform to the following American Association of State Highway and transportation Officials (AASHTO) designations.
 - 1. For concrete pipe up to and including thirty-three inches (33") inside diameter, extra strength concrete conforming to AASHTO Designation M 170M.
 - 2. For concrete pipe thirty-six inches (36") inside diameter and larger, reinforced concrete pipe conforming to AASHTO Designation M 170M Class III.
 - 3. Plastic pipe conforming to AASHTO Designation M294.
- B. All concrete pipe joints with County road rights-of-way shall be sealed against leakage and/or infiltration with rubber gasket in conformance with Section 65-1.06 of the California Standard Specifications, or with other methods as may be permitted under the Special Provisions.
- C. Cast-in-place concrete pipe, vitrified clay pipe, spiral welded steel pipe, or corrugated aluminum alloy pipe shall not be installed within the County road rights-of-way unless specifically so stated in the Special Provisions, and only under the conditions as provided.
- D. All structures to be buried within the County rights-of-way shall be set at such elevations as to allow minimum coverage of thirty inches (30") to the centerline of the roadways and twelve inches (12") at the bottoms of borrow ditches each side of the roadways. The depths of structures shall be established below a flat plane extending across the rights-of-way, no part of which shall extend above the elevations stated above; manholes, lampholes, valves, etc. not included. Future surface elevations shall be anticipated as nearly as possible and structure elevations shall be established for future adjustments accordingly.
- E. The County hereby reserves the right to specify in the Special Provisions the gage and surface treatment of any galvanized corrugated metal pipe that is to be installed.
- F. All longitudinal utility facilities are to be established (and dimensioned on sketches) from surveyed centerline of road right-of-way, not from right-of-way (border) lines.

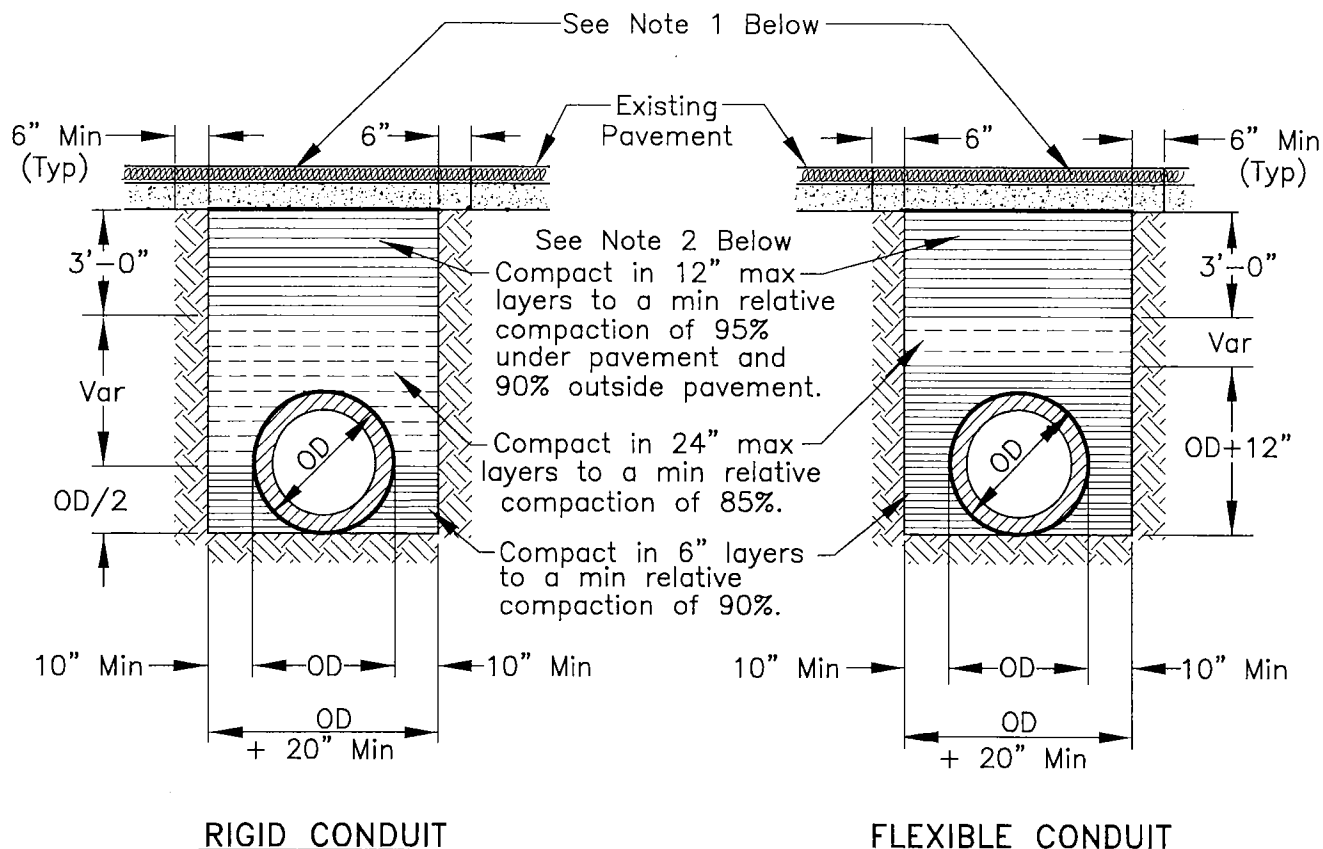
REPAIRS OF THE COUNTY RIGHT-OF-WAY:

- A. All excavations shall be backfilled and compacted immediately after work therein has been completed.
- B. Trenched shall not be left open farther than 300 feet in advance of pipe laying operations, or 200 feet to the rear thereof, unless otherwise permitted by the Engineer.
- C. Unless otherwise permitted under the Special Provisions, backfill shall be placed and mechanically compacted in such a manner that the relative compaction throughout the entire fill within the County road right-of-way shall conform to the percentages of compaction as shown on the Trench detail.
- D. Backfill material shall be placed in horizontal uniform layers not to exceed in thickness, before compaction, 0.67 foot in the bedding region, one foot where 90% compaction is required, and two-feet where 80% compaction is required.
- E. No portion of the excavation(s) shall be compacted by ponding or jetting unless a maintenance bond is provided.
- F. Gravel backfill material shall be utilized only where specifically so stated on the face of the permit. It shall be compacted by means of a high-frequency internal vibrator, the compactor to be a size and type approved by the Engineer. Points of compaction shall not be greater than 18" centers and to the full depth of the lift.
- G. All pavements, curbs, gutters, sidewalks, borrow ditches, pipes, head walls, road signs, trees, shrubbery, and/or other permanent road facilities impaired by or as a result of construction operations at the construction site(s) occupied by materials and/or equipment, shall be restored immediately upon backfilling of the excavation to the original grades and cross sections, and to a condition as good as, or better than existing prior to construction.
- H. All surfacing materials of roadways and driveway approaches cut or damaged by or as a result of construction operations, shall be replaced within ONE WEEK following the backfilling of excavation, weather permitting, with compacted layers of surfacing materials at least as thick as the existing, and no less than two inches (2") of asphalt concrete over six inches (6") of aggregate base, both as specified below.
 - 1. Asphalt Concrete: Combined mineral aggregate shall conform to the quality and gradation requirements for Type "B" one-half inch (1/2) maximum aggregate, coarse or medium gradation as specified in Section 39 of the California Standard Specifications. The bituminous binder to be mixed with mineral aggregate shall be paving asphalt having (Grade PG 64-10), unless otherwise directed by the Engineer. Placement of asphalt concrete surfacing shall conform to the applicable provisions of Section 39 of the California Standard Specifications.
 - 2. Aggregate Base: Combined mineral aggregates shall conform to the quality and the grading for three-quarter inch (3/4") maximum size aggregate Class 2 Aggregate Base specified in Section 26 of the California Standard Specifications.
- I. Before acceptance of repairs to the County road rights-of-way, all unsightly and detrimental dirt, dust and/or debris shall be removed and the construction areas left in a neat and presentable condition(s).
 - 1. If necessary, County road traveled way and driveway pavements shall be washed with water to remove dirt and dust.
 - 2. Driveway approaches and field entrance pavements damaged by equipment or spoil banks shall be repaired as directed by the Engineer.
- J. Upon request by the County, any settlement, sagging of surface, or cracking of pavement shall be repaired immediately by and at the sole expense of the Permittee for a period of one year following acceptance of the work.

SPECIAL PROVISIONS

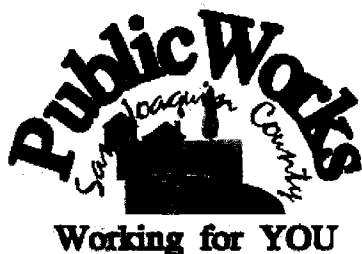
Winter Weather Utility Work

1. **SUPERVISION:** The utility company (**permittee**) shall furnish full-time supervision of all work to insure compliance with the permit provision.
2. **START OF WORK:** No work within the County right-of-way shall be started until the utility company representative has made an evaluation of weather conditions and has determined the work can be accomplished under the provisions of the permit.
3. **CLEAN PAVEMENT:** Dirt and mud shall not be deposited on the pavement outside the area of work, and if inadvertently tracked onto the road travel way shall be removed immediately.
4. **DAILY RESTORATION:** Private driveways and road intersections shall be restored daily.
5. **WEATHER-TIGHT CONDITIONS:** All trenches shall be filled and compacted, ditches and other drainage facilities regarded and opened, and the entire work area restored to weather-tight condition prior to any rain.



NOTES:

1. New pavement shall be 1" thicker than existing pavement, minimum of 0.25 Ft. New base shall be 1" thicker than existing base, min of 0.50 Ft.
2. Select native material or imported granular material as approved by the Director of Public Works. Backfill with materials equal to or better than the existing pavement and base in quality.
3. Relative compaction of materials shall be tested in accordance with the State of California, Dept. of Transportation Testing Manuals, test method No. California 216 or 231.
4. All existing pavement shall be neatly cut to line prior to trench excavation.
5. Jetting or ponding will be permitted within the street right-of-way with a 3 year bond, when approved by the Director of Public Works.
6. When shown by soil composition and compactability, ninety percent (90%) compaction may be used, when approved by the Director of Public Works.
7. Special bedding and backfill requirements may be shown on the plans or specified in the special provisions.



TYPICAL TRENCH BACKFILL

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS

Approved by:

Thomas M. Goss

No.	Revision	Description	Date

Std. Dwg. No.

R-29

Date: DEC 2014

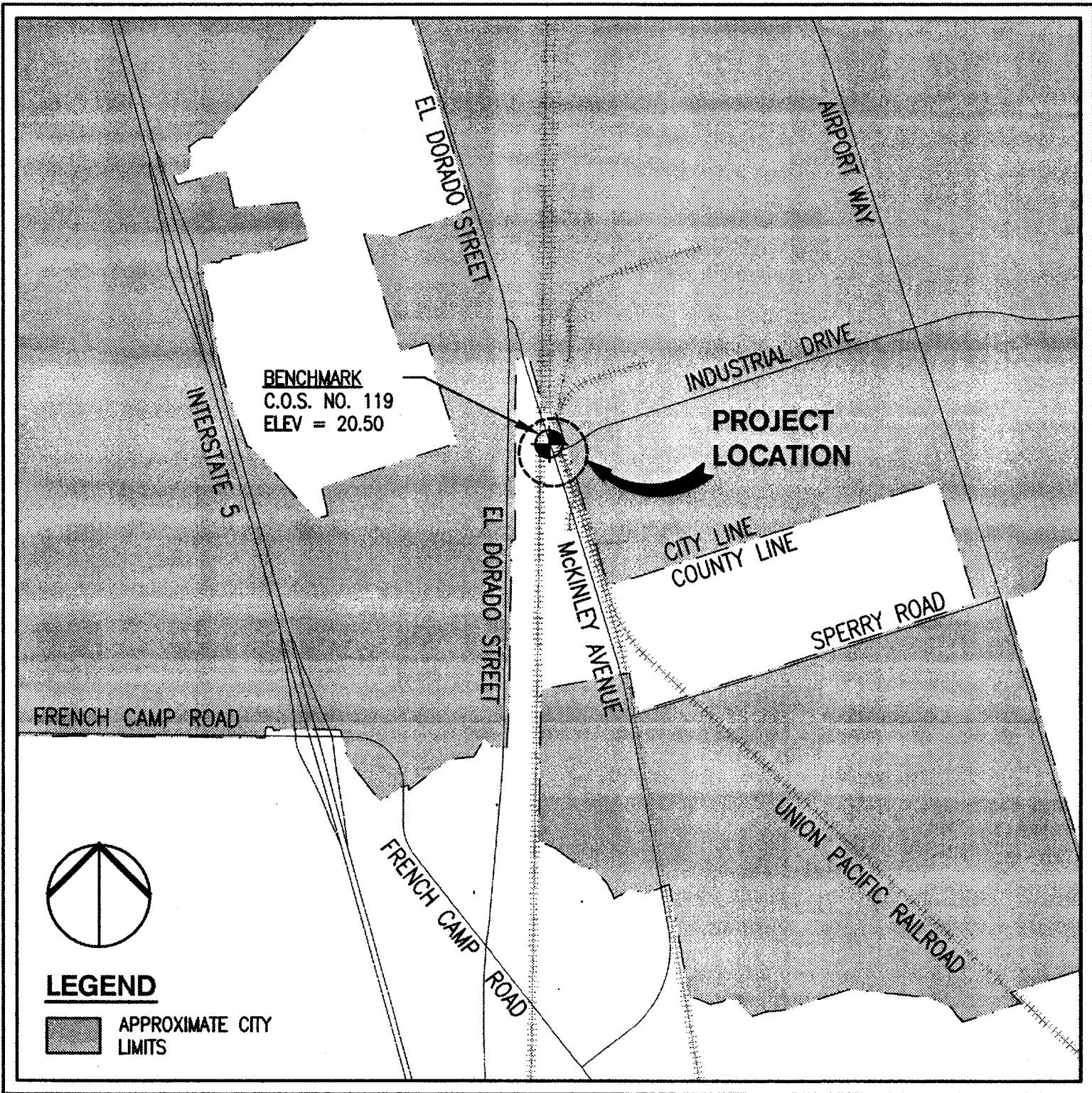
STOCKTON, CALIFORNIA
OAKLAND SUBDIVISION MP 90.37
INDUSTRIAL DRIVE/McKINLEY AVENUE AND
UPRR CROSSING SAFETY IMPROVEMENTS

WORK ORDER: 27536
PROJECT NUMBER: 89401
BUDGET REFERENCE: 14EN10

PROJECT INDEX	
CIVIL	DESCRIPTION
G001	TITLE SHEET
G002	GENERAL NOTES AND SPECIFICATIONS
G003	LEGEND & ABBREVIATIONS
V001	TOPOGRAPHIC AND DEMOLITION PLAN MCKINLEY AVE. STA 28+50 TO 34+50
V002	TOPOGRAPHIC AND DEMOLITION PLAN MCKINLEY AVE. STA 34+50 TO 40+50
V003	TOPOGRAPHIC AND DEMOLITION PLAN INDUSTRIAL DR. STA 1+00 TO 5+50
R001	PLAN AND PROFILE MCKINLEY AVE. STA 28+00 TO 34+00
R002	PLAN AND PROFILE MCKINLEY AVE. STA 34+00 TO 40+00
R003	PLAN AND PROFILE INDUSTRIAL DR. STA 0+00 TO 5+50
R004	TYPICAL CROSS SECTIONS AND DETAILS
X001	SECTIONS I
X002	SECTIONS II

TRAFFIC SIGNAL	DESCRIPTION
GN-1	TRAFFIC SIGNAL NOTES
TS-1	TRAFFIC SIGNAL PLAN 1
TS-2	TRAFFIC SIGNAL PLAN 2
TS-3	TRAFFIC SIGNAL SCHEDULE
SS-1	SIGNING & STRIPING PLAN
SS-2	SIGNING & STRIPING LEGEND
CD-1	CONSTRUCTION DETAILS

TRAFFIC CONTROL	DESCRIPTION
TC001	TRAFFIC CONTROL COVER
TC002	TRAFFIC CONTROL PLAN I
TC003	TRAFFIC CONTROL PLAN II



VICINITY MAP
NOT TO SCALE

PROJECT CONTACTS:

UNION PACIFIC RAILROAD		DISCIPLINES
CONTACT	PHONE NUMBER	
JAMES MROSS	402.250.5375	CIVIL CONSTRUCTION PROJECT MANAGER
TYSON PAYNE	801.520.3176	CIVIL CONSTRUCTION FIELD MANAGER
KEVIN P. NORDEN	909.685.2137	TRACK CONSTRUCTION PROJECT MANAGER
COOPER MINTO	402.544.2046	SENIOR PROJECT DESIGN MANAGER
DAVID NIELSEN	402.540.3330	PROJECT DESIGN MANAGER
MICHAEL A. SMITH	402.544.3438	SIGNAL DESIGN MANAGER
DAMIAN G. WALLNER	402.544.2452	STRUCTURES DESIGN MANAGER
PEGGY YGBUHAY	916.789.5033	MANAGER OF SPECIAL PROJECTS INDUSTRY & PUBLIC PROJECTS
MICHAEL HEALD	402.544.3719	INFORMATION TECHNOLOGY - FIBER
MICHAEL BARRERA	402.544.4365	REAL ESTATE - UTILITIES
DANIELLE P. ALLEN	402.544.8020	REAL ESTATE - ACQUISITIONS
UPRR CALL BEFORE YOU DIG	800.336.9193	
CALL BEFORE YOU DIG	888.258.0808	
(NATIONAL DIRECTORY)		
UPRR RESPONSE	888.877.7267	
MANAGEMENT		
COMMUNICATIONS CENTER		
(RMCC)		
UPRR SIGNAL OPERATIONS	800.877.5591	
CENTER		

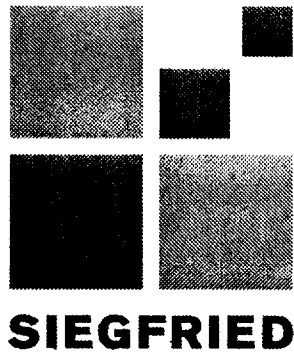
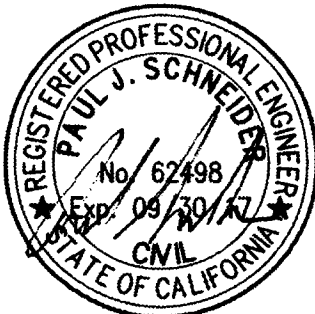
CIVIL ENGINEERING:	TRAFFIC CONTROL:
SIEGFRIED ENGINEERING, INC.	STATEWIDE TRAFFIC SAFETY & SIGNS
3244 BROOKSIDE ROAD, SUITE 100	7920 CUCAMONGA AVE.
STOCKTON, CA 95219	SACRAMENTO, CA 95826
CONTACT: PAUL J. SCHNEIDER, P.E.	CONTACT: JOE MURPHY
(209) 943-2021	(916) 452-4855
pjs@siegfriedeng.com	jmurphy@STSSI.com

SIGNING AND STRIPING, AND TRAFFIC SIGNAL:	SAN JOAQUIN COUNTY:
STANTEC CONSULTING INC.	SAN JOAQUIN COUNTY PUBLIC WORKS
1340 TREAT BOULEVARD, SUITE 300	1810 E. HAZELTON AVENUE
WALNUT CREEK, CA 94597	STOCKTON, CA 95201
CONTACT: JOY BHATTACHARYA, P.E.	CONTACT: JAYNA RUTZ
(925) 941-1400	(209) 468-3056
joy.bhattacharya@stantec.com	jrutz@sjgov.com

CITY OF STOCKTON:
CITY OF STOCKTON - PUBLIC WORKS
345 NORTH EL DORADO STREET
STOCKTON, CA 95202
CONTACT: CLIFTON GAYOTIN
(209) 937-8241
cliff.gayotin@stocktongov.com



BENCHMARK:
CITY OF STOCKTON BENCHMARK NO. 119
BRASS DISK MARKING C.O.S. MONUMENT STAMPED "3S-2" IN MONUMENT WELL ON
THE WEST SIDE OF MCKINLEY AVENUE AT THE APPROXIMATE CENTERLINE OF
INDUSTRIAL DRIVE, EAST OF THE WESTERN PACIFIC R.R. R/W, EXTENDED WESTERLY.
ELEVATION = 20.50
DATUM = NAVD 88 (2008 REVISION, CITY OF STOCKTON)



SIEGFRIED
3244 Brookside Road, Suite 100
Stockton, California 95219



DRAWN BY: MDE	UNION PACIFIC RAILROAD Office of Assistant Vice President Engineering Design/Construction Stockton, California Oakland Subdivision MP 90.37 Industrial Drive/McKinley Avenue and UPRR Crossing Safety Improvements
CHECKED BY: PJS	
DATE: 08/19/2016	
SHEET NUMBER: G001	
LOCATION & DESCRIPTION: SHEET TITLE: TITLE SHEET	

COUNTY OF SAN JOAQUIN DEPARTMENT OF PUBLIC WORKS	
APPROVED AS "ENCROACHMENT PERMIT PLAN SET" APPROVED WORK WITHIN COUNTY RIGHT-OF-WAY ONLY	
APPROVED BY: Alex Chetley	DATE: 8/19/16
RCE NO.: 055407	EXP. DATE: 12/31/16
ENCROACHMENT PERMIT NO.: 1502441 DATE ISSUED: BY:	

5261C

GENERAL NOTES

1. ELEVATIONS ARE REFERRED TO NAVD 88 (2008 REVISION, CITY OF STOCKTON).
2. THE CITY OF STOCKTON STANDARD PLANS AND DETAILS AS SHOWN HEREON ARE FOR THE CONVENIENCE OF THE CONTRACTOR. PRIOR TO AND DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR BEING FAMILIAR WITH THE CURRENT CITY OF STOCKTON STANDARDS AND ALL UPDATES AND REVISIONS MADE TO ANY OF THE CITY OF STOCKTON STANDARD DETAILS SHOWN ON THESE PLANS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR BEING FAMILIAR WITH THE WRITTEN SPECIFICATIONS AND/OR OTHER STANDARD DETAILS NOT SHOWN BUT WHICH ARE INCLUDED IN THE CITY OF STOCKTON STANDARD SPECIFICATIONS AND PLANS.
3. ALL IMPROVEMENTS SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE FOLLOWING: CITY OF STOCKTON STANDARD SPECIFICATIONS AND PLANS ADOPTED NOVEMBER 25, 2003, AND ALL AMENDMENTS THERETO TO DATE, AND/OR CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (CALTRANS) LATEST EDITION, WHERE APPLICABLE. WHERE THERE IS A CONFLICT BETWEEN THE PLANS AND THE CITY'S STANDARD SPECIFICATIONS AND PLANS, THE CITY OF STOCKTON STANDARD SPECIFICATIONS AND PLANS SHALL PREVAIL. ALL WORK SHALL BE UNDER THE INSPECTION OF THE CITY OF STOCKTON AND SAN JOAQUIN COUNTY AND/OR UPRR.
4. DRAWING NUMBERS SHOWN ON THE PLANS REFER TO COUNTY OF SAN JOAQUIN STANDARD PLANS, SHOWN THUS: DWG. NO. R28A & R28B UNLESS OTHERWISE NOTED.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING FROM DAMAGE ALL EXISTING IMPROVEMENTS THAT ARE TO REMAIN. SUCH IMPROVEMENTS THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT HIS EXPENSE.
6. EXCAVATION OF 5 FEET OR MORE IN DEPTH WILL REQUIRE AN EXCAVATION PERMIT FROM THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL SAFETY.
7. THE CONTRACTOR SHALL DEMOLISH, EXCAVATE, REMOVE AND DISPOSE OF ALL EXISTING CONCRETE CURB, GUTTER OR SIDEWALK, ASPHALT CONCRETE PAVING, AND DELETERIOUS MATERIAL AS REQUIRED TO CONSTRUCT THE CONTRACT WORK. ALL SUCH EXCESS MATERIAL GENERATED SHALL BE DISPOSED OF FROM THE SITE BY THE CONTRACTOR.
8. WORK IN PUBLIC RIGHT-OF-WAY IS SUBJECT TO THE APPROVAL AND ACCEPTANCE OF THE CITY OF STOCKTON PUBLIC WORKS DEPARTMENT AND SAN JOAQUIN COUNTY PUBLIC WORKS.
9. EXISTING UTILITIES ARE SHOWN AS THEY ARE BELIEVED TO EXIST. THE OWNER AND THE ENGINEER DO NOT ACCEPT RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO COMMENCING ANY WORK, THE CONTRACTOR SHALL HAVE EACH UTILITY COMPANY ACCURATELY LOCATE IN THE FIELD THEIR MAINS AND SERVICE LINES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES.
10. ATTENTION IS CALLED TO: 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, WHICH STATES:
"PRIOR TO OPENING AN EXCAVATION, EFFORT SHALL BE MADE TO DETERMINE WHETHER UNDERGROUND INSTALLATION I.E., SEWER, WATER, FUEL, ELECTRIC LINES, ETC., WILL BE ENCOUNTERED AND, IF SO, WHERE SUCH UNDERGROUND INSTALLATIONS ARE LOCATED. WHEN THE 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 EXISTING 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."
11. THE CONTRACTOR SHALL ATTEND A PRE-CONSTRUCTION CONFERENCE WITH UNION PACIFIC RAILROAD, THE CITY OF STOCKTON, AND SAN JOAQUIN COUNTY PRIOR TO STARTING ANY WORK.
12. CONTRACTOR SHALL CONTACT JASON ENDER (209) 937-8381 OF THE CITY OF STOCKTON FOR A PRE-CONSTRUCTION CONFERENCE A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK.
13. PRIOR TO COMMENCING ANY WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE EACH UTILITY COMPANY LOCATE IN THE FIELD THEIR MAIN SERVICE LINES. THE CONTRACTOR SHALL NOTIFY MEMBERS OF THE UNDERGROUND SERVICE ALERT (U.S.A.) 48 HOURS IN ADVANCE OF PERFORMING EXCAVATION WORK BY CALLING THE TOLL-FREE NUMBER (800-227-2600).
14. THE CONTRACTOR SHALL CHECK WITH THE UTILITY COMPANIES AND VERIFY ALL UTILITY LOCATIONS. IT SHALL BE CONTRACTOR'S SOLE RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES SO THAT NO DAMAGE RESULTS TO THEM DURING THE PERFORMANCE OF HIS CONTRACT. THE CONTRACTOR SHALL BE REQUIRED TO COOPERATE WITH OTHER CONTRACTORS AND UTILITY COMPANIES INSTALLING NEW STRUCTURES, UTILITIES AND SERVICES TO THE DEVELOPMENT.
15. WHENEVER EXISTING PAVEMENT IS BROKEN OR CUT DURING THE INSTALLATION OF THE WORK COVERED BY THESE PLANS AND SPECIFICATIONS, THE PAVEMENT SHALL BE REPLACED WITH PAVEMENT MATERIALS EQUAL TO OR BETTER THAN THE MATERIALS USED IN THE ORIGINAL PAVING. THE FINISHED PAVEMENT SHALL BE SUBJECT TO THE APPROVAL OF THE CITY ENGINEER IF LOCATED WITHIN CITY RIGHT-OF-WAY.
16. PAYMENT FOR PAVEMENT WILL BE MADE FOR THE AREAS SHOWN ON THE PLANS. REPLACEMENT OF PAVEMENT WHICH IS BROKEN OR CUT IN THE INSTALLATION OF THE IMPROVEMENTS COVERED BY THESE PLANS AND SPECIFICATIONS, AND WHICH LIES OUTSIDE OF SAID AREAS, SHALL BE INCLUDED IN THE STREET CONTRACTOR'S UNIT PRICE FOR PAVEMENT, AND NO ADDITIONAL PAYMENT SHALL BE MADE FOR SUCH WORK.
17. THE CONTRACTOR SHALL EXPOSE EXISTING STORM DRAINS AND SANITARY SEWERS WHERE CONNECTIONS ARE TO BE MADE SO EXISTING FLOWLINES AND LOCATIONS CAN BE VERIFIED BEFORE THE START OF CONSTRUCTION.
18. THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOBSITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER, UPRR, AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
19. CONSTRUCTION STAKING:
IF SIEGFRIED ENGINEERING IS NOT PERFORMING THE CONSTRUCTION STAKING, AND AN ERROR OR OMISSION ON THE PLANS IS DISCOVERED BY THE SURVEYOR PERFORMING THE CONSTRUCTION STAKING DURING THE PREPARATION OF THE STAKING PLAN AND IT IS NOT IMMEDIATELY BROUGHT TO THE ATTENTION OF SIEGFRIED ENGINEERING THEN SIEGFRIED ENGINEERING CANNOT, AND WILL NOT TAKE RESPONSIBILITY FOR THE CONSTRUCTION COSTS HAD THE ERROR OR OMISSION BEEN MITIGABLE PRIOR TO CONSTRUCTION.
20. THE CONTRACTOR SHALL OBTAIN A PERMIT FROM THE CALIFORNIA WATER SERVICE COMPANY FOR USE OF WATER FROM FIRE HYDRANTS FOR CONSTRUCTION PURPOSES. THE PERMIT SHALL BE APPROVED BY THE CITY OF STOCKTON FIRE DEPARTMENT.

21. THE PROPERTY OWNERS, DEVELOPERS, AND/OR SUCCESSORS IN INTEREST SHALL COMPLY WITH THE PROVISIONS OF THE CALIFORNIA GENERAL CONSTRUCTION ACTIVITY STORM WATER PERMIT AND STATE WATER RESOURCES CONTROL BOARD ORDER NUMBER 2010-0014-DWQ. COMPLIANCE IS MANDATORY PER CHAPTER 15, SECTIONS 15.48.010 THROUGH 15.48.140 OF THE STOCKTON MUNICIPAL CODE.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND LICENSES REQUIRED FOR THE CONSTRUCTION AND COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT AND A GRADING AND EROSION CONTROL PERMIT (FROM BOTH SAN JOAQUIN COUNTY AND CITY OF STOCKTON) PRIOR TO SCHEDULING A PRE-CONSTRUCTION MEETING OR STARTING ANY WORK, UNLESS OTHERWISE APPROVED BY THE CITY AND COUNTY.
23. CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT WHERE APPLICABLE FOR ANY WORK DONE WITHIN THE RIGHTS-OF-WAY OR EASEMENTS FROM CITY OF STOCKTON, AND SAN JOAQUIN COUNTY. CONTRACTOR SHALL NOTIFY CITY, 24 HOURS IN ADVANCE OF COMMENCING THE WORK OR AS REQUIRED BY SAID PERMITS.
24. ALL STATIONS REFER TO DISTANCES ALONG STREET CENTERLINE, UNLESS OTHERWISE NOTED. ALL STATIONS OFF CENTERLINE ARE PERPENDICULAR TO OR RADIALLY OPPOSITE CENTERLINE STATIONS.
25. ACTUAL CONNECTIONS TO EXISTING WATER LINES WILL NOT BE PERMITTED PRIOR TO THE COMPLETION OF STERILIZATION AND TESTING OF NEW WATER MAINS. ALL WATER VALVES TO BE OPERATED UNDER THE DIRECTION OF THE WATER DIVISION OF THE REGULATORY AGENCY PERSONNEL ONLY.
26. CONTRACTOR SHALL INSTALL A BLUE REFLECTOR 6-INCHES FROM THE CENTERLINE ON FIRE HYDRANT SIDE AT ALL FIRE HYDRANT LOCATIONS PER MUTCD, CALIFORNIA SUPPLEMENT, SECTION 3B.11 AND FIGURE 3B-102. CONTRACTOR SHALL PAINT FIRE HYDRANTS WITH ENAMEL SAFETY YELLOW PAINT. FIRE HYDRANT STEM BREAKAWAY MUST COINCIDE WITH BREAKAWAY SPOOL.
27. ANY FIRE HYDRANTS TO BE REMOVED NEEDS TO BE RETURNED TO THE FIRE DEPARTMENT. CONTACT BILL CATLETT AT (209) 937-7420.
28. DUST CONTROL SHALL BE PERFORMED AT ALL TIMES, AT THE CONTRACTORS' EXPENSE, TO MINIMIZE ANY DUST NUISANCE AND SHALL BE IN ACCORDANCE WITH SECTION 10 OF CALTRANS STANDARD SPECIFICATIONS AND THE REQUIREMENTS OF THE CITY OF STOCKTON.
29. THE CONTRACTOR SHALL FURNISH, INSTALL, OPERATE AND MAINTAIN ALL MACHINERY, APPLIANCES AND EQUIPMENT TO MAINTAIN ALL EXCAVATIONS FREE FROM WATER DURING CONSTRUCTION, AND SHALL DEWATER AND DISPOSE OF THE WATER SO AS TO NOT CAUSE INJURY TO PUBLIC OR PRIVATE PROPERTY, OR TO CAUSE A NUISANCE OR MENACE TO THE PUBLIC. THE DEWATERING SYSTEM SHALL BE INSTALLED AND OPERATED SO THE GROUNDWATER LEVEL OUTSIDE THE EXCAVATION IS NOT REDUCED TO THE EXTENT WHICH WOULD CAUSE DAMAGE OR ENDANGER ADJACENT STRUCTURES OR PROPERTY. ALL COSTS FOR DEWATERING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ALL PIPE CONSTRUCTION. THE STATIC WATER LEVEL SHALL BE DRAWN DOWN A MINIMUM OF 1 FOOT BELOW THE BOTTOM OF EXCAVATION OF ANY FILL TO THE SPECIFIED DENSITY. DISPOSAL OF WATER SHALL BE IN ACCORDANCE WITH THE APPROVED SWPPP AND SHALL NOT DAMAGE PROPERTY, CREATE A PUBLIC NUISANCE OR VIOLATE THE LAW. THE CONTRACTOR SHALL HAVE ON HAND, PUMPING EQUIPMENT AND MACHINERY IN GOOD WORKING CONDITION FOR EMERGENCIES AND SHALL HAVE WORKMEN AVAILABLE FOR ITS OPERATION. THE DEWATERING SYSTEM SHALL OPERATE CONTINUOUSLY UNTIL BACK-FILL HAS BEEN COMPLETED TO 1 FOOT ABOVE THE NORMAL STATIC GROUNDWATER LEVEL.
30. UTILIZE A SEDIMENTATION OR FILTERING CONTROL MEASURE TO REMOVE SEDIMENT FROM DEWATERING WATERS PRIOR TO DISCHARGE. SEE SEDIMENT FILTER DETAIL ON THE EROSION CONTROL PLAN.
31. IN ACCORDANCE WITH THE REQUIREMENTS OF THE RECENTLY ADOPTED STORM WATER NPDES PERMIT, THE FOLLOWING MUST BE SUBMITTED PRIOR TO OR DURING THE PRECONSTRUCTION MEETING:

A. TRANSMITTAL MEMO THAT INCLUDES:
* THE NAME AND PHONE NUMBER OF THE PERSON RESPONSIBLE FOR SWPPP IMPLEMENTATION, AND

B. COPY OF A SIGNED NOTICE OF INTENT FORM OR A WASTE DISCHARGE IDENTIFICATION NUMBER.
32. THE DISCHARGE OF CHLORINATED AND DE-CHLORINATED WATER INTO THE STORM DRAIN SYSTEM IS PROHIBITED. THE DISCHARGE OF CHLORINATED AND DE-CHLORINATED WATER INTO THE SANITARY SEWER SYSTEM REQUIRES PRIOR APPROVAL FROM MUD. CONTACT RICHARD STIFFLER AT 209-937-8740.
33. LOCATION OF SAW CUTTING AS REPRESENTED ON THESE PLANS SHALL BE DETERMINED IN THE FIELD WITH THE PUBLIC WORKS AND UPRR INSPECTORS. IF THE EXISTING SECTION REQUIRES GRINDING OR OVERLAYING OF AC, IT SHALL BE DETERMINED IN THE FIELD WITH THE PUBLIC WORKS AND UPRR INSPECTORS.
34. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, BARRICADES, SIGNS, FLAGMEN OR OTHER DEVICES NECESSARY FOR PUBLIC SAFETY.
35. CONTRACTOR SHALL ADHERE TO THE SUBMITTED AND APPROVED TRAFFIC CONTROL AND/OR DETOUR PLAN INCLUDED IN THESE PLANS DURING CONSTRUCTION.
36. ALL FIELD CHANGES SHALL BE APPROVED BY THE COUNTY AND CITY ENGINEER, AND UPRR.
37. WHENEVER EXISTING FACILITIES ARE REMOVED, DAMAGED, BROKEN OR CUT IN THE INSTALLATION OF THE WORK COVERED BY THESE PLANS OR SPECIFICATIONS, SAID FACILITIES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE, AFTER PROPER BACKFILLING AND/OR CONSTRUCTION, WITH MATERIALS EQUAL TO OR BETTER THAN THE MATERIALS USED IN THE ORIGINAL EXISTING FACILITIES. THE FINISHED PRODUCT SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER, THE ENGINEER, AND THE RESPECTIVE REGULATORY AGENCY.
38. THE CONTRACTOR SHALL MAINTAIN A NEATLY MARKED SET OF FULL-SIZE AS-BUILT RECORD DRAWINGS SHOWING THE FINAL LOCATION AND LAYOUT OF ALL MECHANICAL, ELECTRICAL AND OTHER INSTRUMENTATION EQUIPMENT; PIPING AND CONDUITS, STRUCTURES AND OTHER FACILITIES. THE AS-BUILTS OF THE ELECTRICAL SYSTEM SHALL INCLUDE THE STREET LIGHT LAYOUT PLAN SHOWING LOCATION OF LIGHTS, CONDUITS, CONDUCTORS, POINTS OF CONNECTIONS TO SERVICES, PULLBOXES, AND WIRE SIZES. AS-BUILT RECORD DRAWINGS SHALL REFLECT CHANGE ORDERS, ACCOMMODATIONS, AND ADJUSTMENTS TO ALL IMPROVEMENTS CONSTRUCTED. WHERE NECESSARY, SUPPLEMENTAL DRAWINGS SHALL BE PREPARED AND SUBMITTED BY THE CONTRACTOR.

39. THIS PROJECT WILL NOT BE SUBMITTED TO THE CITY COUNCIL FOR ACCEPTANCE OF IMPROVEMENTS UNTIL ALL STREET LIGHTS ARE INSTALLED AND ENERGIZED. COMPLETE AS-BUILT PLANS ARE ALSO REQUIRED PRIOR TO INSPECTION.
40. PER THE REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYORS' ACT (BUSINESS AND PROFESSIONS CODE 8700-8805) SECTION 8771: ALL SURVEY MONUMENTS, PROPERTY PINS ETC., WITHIN THE LIMITS OF CONSTRUCTION, THAT HAVE THE POSSIBILITY OF BEING DAMAGED OR DESTROYED DURING CONSTRUCTION MUST BE LOCATED AND REFERENCED BY A LICENSED LAND SURVEYOR, AND A CORNER RECORD OR RECORD OF SURVEY SHALL BE FILED WITH THE COUNTY SURVEYOR, PRIOR TO THE START OF CONSTRUCTION. IF ANY OF THESE MONUMENTS ARE DESTROYED, DAMAGED, OR COVERED DURING THE COURSE OF CONSTRUCTION A NEW MONUMENT AND MONUMENT BOX MUST THEN BE SET IN ITS PLACE, AT THE EXACT LOCATION, BY A LICENSED LAND SURVEYOR, AND ANOTHER CORNER RECORD OR RECORD OF SURVEY FILED WITH THE COUNTY SURVEYOR. ADDITIONALLY, CONTRACTOR'S LICENSED SURVEYOR SHALL TIE DOWN EXISTING MONUMENTS AND SUBMIT THE INFORMATION TO THE ENGINEER. A NEW RECORD OF SURVEY SHALL BE FILED AT THE COUNTY'S RECORDER'S OFFICE.
41. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ALL TRASH AND DEBRIS 100' IN ALL DIRECTIONS OF PROJECT LIMITS, AND AROUND ALL RAILROAD TRACKS.

UPRR GENERAL NOTES

1. CONTRACTORS SHALL NOTIFY SERVICE ALERT, (800) 642-2444 AND FIBER OPTICS HOTLINE (800) 336-9193, 48 HOURS PRIOR TO ANY EXCAVATION. THE USA AUTHORIZATION NUMBERS SHALL BE KEPT AT THE JOB SITE.
2. NO WORK WHATSOEVER SHALL BE COMMENCE WITHOUT FIRST NOTIFYING THE UPRR ENGINEER.
3. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, COUNTY, AND CITY LAWS AND ORDINANCES AND REGULATIONS OF THE DEPARTMENT OF INDUSTRIAL RELATIONS, OSHA, NPDES AND INDUSTRIAL ACCIDENT COMMISSION RELATED TO THE SAFETY AND CHARACTER OF THE WORK, EQUIPMENT AND LABOR PERSONNEL.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL UTILITY AGENCIES.
5. CONTRACTOR SHALL PROTECT IN PLACE (BY ANY MEANS NECESSARY) ALL EXISTING UTILITIES TO REMAIN UNLESS OTHERWISE SPECIFIED HEREIN. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE REPAIR AT HIS EXPENSE, FOR ANY DAMAGE TO EXISTING UTILITIES, STRUCTURES, OR OTHER SITE FEATURES, AS A RESULT OF HIS WORK.
6. PRIOR TO PLACING CURBS, PAVEMENTS, BASE, SUBBASE, TRACK, ETC., ALL UNDERGROUND UTILITIES SHALL BE INSTALLED, BACKFILL COMPLETED, AND THE ENGINEER NOTIFIED BY EACH OF THE UTILITY COMPANIES HAVING FACILITIES WITHIN THE WORK AREA, THAT THE UTILITY INSTALLATION HAS SATISFACTORILY PASSED ACCEPTANCE TESTS.
7. ALL EXISTING UNDERGROUND UTILITIES, THAT ARE NOT TO BE RE-USED SHALL BE ABANDONED IN PLACE. ALL EXISTING PIPELINES TO BE ABANDONED IN PLACE SHALL BE CEMENT SLURRY FILLED AND CAPPED AT LEAST 3'-0" BELOW TOP OF PROPOSED SUBGRADE, UNLESS OTHERWISE NOTED.
8. CONTRACTOR SHALL VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES WHETHER KNOWN OR UNKNOWN PRIOR TO BEGINNING CONSTRUCTION.
9. ANY UNDERGROUND STRUCTURES SUCH AS CESSPOOLS, CISTERNS, MINING SHAFTS, TUNNELS, SEPTIC TANKS, WELLS, AND PIPELINES NOT LOCATED PRIOR TO CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR DETERMINATION OF APPROPRIATE ACTION SUCH AS REMOVAL OR TREATMENT IN A MANNER JUDGED SUITABLE TO THE ENGINEER.
10. CONTRACTOR SHALL COORDINATE LOCATION OF ALL PROPOSED UTILITIES WITH UPRR TO ASSURE ACCURACY OF UTILITY CONNECTIONS AND COMPLIANCE WITH LOCAL CODES.
11. ANY EXISTING CONDITIONS FOUND TO BE A VARIANCE WITH THESE DRAWINGS MUST BE IMMEDIATELY REPORTED TO THE ENGINEER.
12. CONTRACTOR SHALL MAINTAIN AND CLEAN TO THE SATISFACTION OF THE ENGINEER, ALL ACCESS AND SERVICE ROADS USED DURING CONSTRUCTION.
13. CONTRACTOR SHALL PERFORM ALL CONSTRUCTION IN SUCH A MANNER AS TO PROTECT ADJACENT EXISTING BUILDINGS, AND OTHER SITE ELEMENTS WHICH ARE TO REMAIN IN SERVICE.
14. CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS FOR ALL IMPROVEMENTS.
15. NO FIELD CHANGES WILL BE PERMITTED WITHOUT DIRECT WRITTEN AUTHORIZATION FROM THE UPRR ENGINEER OR HIS REPRESENTATIVE.
16. CONTRACTOR SHALL COORDINATE WORK WHICH AFFECTS ADJACENT PROPERTY OWNERS. ANY QUESTIONS OR AGREEMENTS BETWEEN ADJACENT PROPERTY OWNERS AND CONTRACTOR SHALL BE MADE IN WRITING. A COPY OF SUCH AGREEMENT SHALL BE PROVIDED TO THE UPRR ENGINEER OR HIS REPRESENTATIVE.
17. THE CONTRACTOR IS RESPONSIBLE FOR PREPARING A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) TO COMPLY WITH CALIFORNIA REGULATIONS. GENERAL SPECIFICATIONS AND TYPICAL EROSION CONTROL DETAILS ARE INCLUDED IN THE PLAN SET.
18. RIGHT-OF-WAY LINES SHOWN ON THE PLANS WERE TAKEN FROM EXISTING UPRR RIGHT-OF-WAY MAP AND ARE APPROXIMATE.
19. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL PAVEMENT MARKINGS THAT WILL BE IN CONFLICT WITH THE PROPOSED WORK.
20. CONTRACTOR SHALL MAINTAIN AT LEAST ONE ACCESS TO ALL AFFECTED BUSINESS. IF NECESSARY, MULTIPHASE CONSTRUCTION SHALL BE UTILIZED.

TRAFFIC NOTES

1. ALL BARRICADES, WARNING SIGNS, LIGHTS, DEVICES, ETC. FOR THE GUIDANCE OF VEHICLE TRAFFIC AND PEDESTRIANS MUST CONFORM TO THE INSTALLATION SHOWN IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CURRENT EDITION.
2. CONTRACTOR SHALL MAKE TWICE DAILY INSPECTIONS OF BARRICADES AND FLASHING LIGHTS TO ENSURE PROPER PLACEMENT AND FUNCTIONING OF WARNING DEVICES.
3. GRADE CROSSINGS CLOSED TO TRAFFIC DURING CONSTRUCTION SHALL BE BARRICADED IN ACCORDANCE WITH THE M.U.T.C.D. AND F.R.A.
4. AT ALL GRADE CROSSINGS, ALL GRADE CROSSING WARNING SIGNS (CROSSBUCK) SHALL TEMPORARILY BE RELOCATED DURING CONSTRUCTION AND RESET AFTER THE GRADE CROSSINGS CONSTRUCTION IS COMPLETED TO A POINT ADJACENT TO THE ROADWAY AND 15 FEET FROM THE CENTERLINE OF THE NEAR TRACK AS SLATED IN THE MUTCD EXCEPT WHERE AUTOMATIC GRADE CROSSING WARNING SIGNALS/GATES EXIST. ALL AUTOMATIC WARNING DEVICES ARE THE RESPONSIBILITY OF UPRR. AT NO TIME SHALL A CROSSING BE LEFT OPEN WITHOUT PROPER WARNING SIGNS IN PLACE.
5. CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLANS TO CITY OF STOCKTON AND SAN JOAQUIN COUNTY FOR APPROVAL AT LEAST 2 WEEKS PRIOR TO EACH ROAD CLOSURE. PLANS SHALL BE 11"x17" ENGINEERED DRAWINGS, SEALED BY A PROFESSIONAL ENGINEER FOR THE STATE OF CALIFORNIA.
6. THE CONTRACTOR IS RESPONSIBLE FOR THE PROMPT REPLACEMENT AND/OR REPAIR OF ALL TRAFFIC CONTROL DEVICES AND APPURTENANCES DAMAGED OR DISTURBED DUE TO CONSTRUCTION.

STRIPING NOTES:

REFER TO SHEET SS-1, SIGNING AND STRIPING PLAN, FOR STRIPING NOTES.

TRAFFIC SIGNAL PLAN NOTES:

REFER TO SHEET GN-1, TRAFFIC SIGNAL PLAN, FOR TRAFFIC SIGNAL NOTES

SPECIFICATIONS:

REFER TO THE SPECIAL PROVISIONS FOR ASPHALT CONCRETE, AGGREGATE BASE, GEOSYNTHETICS (ALTERNATIVE), PIPE MATERIALS, BEDDING, TRENCHING, AND EXCAVATION, AND ALL ELECTRICAL WORK (INCLUDING BUT NOT LIMITED TO SIGNALS, EQUIPMENT, ETC.).

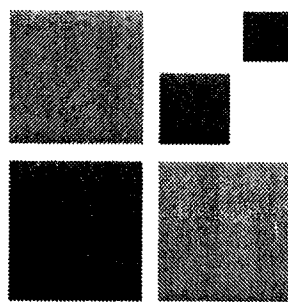
ALL SPECIFICATIONS SHALL ADHERE TO CITY OF STOCKTON (ELECTRICAL AND SIGNAL WORK, ETC.); CALTRANS AND SAN JOAQUIN COUNTY (PAVING, TRENCHING, EXCAVATION, ETC.)

CONTACT LIST

- A) REGULATORY AGENCY: CITY OF STOCKTON
22 E. WEBER AVENUE
STOCKTON, CA 95202
209-937-8411
- B) WATER: CALIFORNIA WATER SERVICE COMPANY
1550 W. FREMONT STREET, SUITE 100
STOCKTON, CA 95203
209-464-8311
- C) GAS & ELECTRIC: P. G. & E.
4040 WEST LANE
STOCKTON, CA 95204
209-942-1489
- D) TELEPHONE: AT&T
3706 E. HAMMER LANE, SUITE 6
STOCKTON, CA 95212
209-474-4364
- E) CABLE TELEVISION: COMCAST
6505 TAM O'SHANTER DRIVE
STOCKTON, CA 95210
209-993-6665
- F) SEWER: CITY OF STOCKTON M.U.D.
2500 NAVY DRIVE
STOCKTON, CA 95206
209-937-8341
- G) FIBER OPTIC: CENTURYLINK/WESTMCHLEVEL 3 AND SPRINT
800-336-9193
- H) RAILROAD: UNION PACIFIC RAILROAD
1400 DOUGLAS ST.
OMAHA, NE 68179
402-544-3330



DATE SIGNED: 07/12/16



SIEGFRIED

3244 Brookside Road, Suite 100
Stockton, California 95219



DRAWN BY: MDE
CHECKED BY: PJS
DATE: 07/12/2016
SHEET NUMBER: G002

UNION PACIFIC
RAILROAD

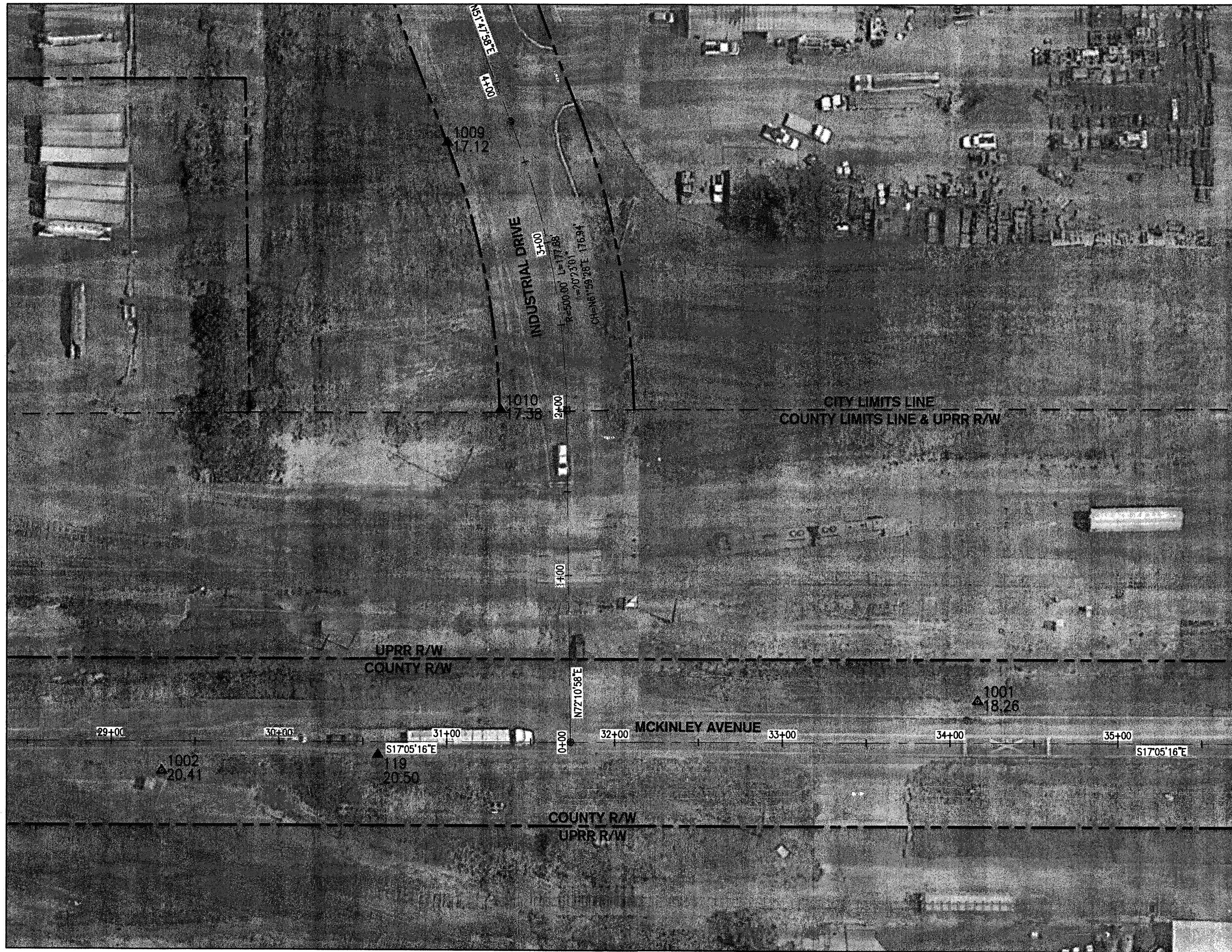
LOCATION & DESCRIPTION:

Stockton, California
Oakland Subdivision MP 90.37
Industrial Drive/McKinley Avenue and UPRR Crossing Safety Improvements

SHEET TITLE:

GENERAL NOTES AND SPECIFICATIONS

5261.1c



HORIZONTAL CONTROL PLAN
SCALE: 1" = 40'



BENCHMARK:
CITY OF STOCKTON BENCHMARK NO. 119

BRASS DISK MARKING C.O.S. MONUMENT STAMPED "3S-2" IN MONUMENT WELL ON THE WEST SIDE OF MCKINLEY AVENUE AT THE APPROXIMATE CENTERLINE OF INDUSTRIAL DRIVE, EAST OF THE WESTERN PACIFIC R.R. R/W, EXTENDED WESTERLY.

ELEVATION = 20.50

DATUM = NAVD 88 (2008 REVISION, CITY OF STOCKTON)

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
119	2153626.31	6338383.87	20.50	MONUMENT FOUND 2.5" RCE 8189 C.O.S. 3S-2
1001	2153294.31	6338520.60	18.26	MONUMENT SET 1/2" REBAR CONTROL POINT
1002	2153746.48	6338336.51	20.41	MONUMENT SET 1/2" REBAR CONTROL POINT
1009	2153694.87	6338746.81	17.12	MONUMENT FOUND 1/2" REBAR
1010	2153617.22	6338602.36	17.38	MONUMENT FOUND 1/2" REBAR

LEGEND

EXISTING	PROPOSED

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
ADA	AMERICANS WITH DISABILITIES ACT
BC	BEGINNING OF CURVE
BLDG.	BUILDING
BOC	BACK OF CURB
BW	BACK OF WALK
COL	COLUMN
C	CONCRETE
C.G. & SW	CURB, GUTTER, AND SIDEWALK
CL	CENTERLINE
CB	CATCH BASIN
CO	CLEANOUT
C.O.S.	CITY OF STOCKTON
CPUC	CALIFORNIA PUBLIC UTILITIES COMMISSION
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DWG	DRAWING
EC	END OF CURVE
EL	ELEVATION
EP	EXISTING PAVEMENT
ESMT	EASEMENT
EX	EXISTING
FL	FLOWLINE
FF	FINISHED FLOOR
FOC	FACE OF CURB
FH	FIRE HYDRANT
FTG	FOOTING
G	GROUND
GB	GRADE BREAK
GI	GALVANIZED IRON
HP	HIGH POINT
HORIZ	HORIZONTAL
INV	INVERT
LF	LINEAL FEET
L	LEFT
MAX	MAXIMUM
MH	MAINTENANCE HOLE
MIN	MINIMUM
NO.	NUMBER
NTS	NOT TO SCALE
P	PAVEMENT
PC	POINT OF CURVATURE
PP	POWER POLE
PT	POINT
PUE	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE
PL	PROPERTY LINE
R	RADIAL OR RADIUS
R/W	RIGHT-OF-WAY
RC	ROLL-CURB
RCP	REINFORCED CONCRETE PIPE
RWL	RAIN WATER LEADER
SD	STORM DRAIN
SS	SANITARY SEWER
SL	STREET LIGHT
SW	SIDEWALK
SDJB	STORM DRAIN JUNCTION BOX
SDMH	STORM DRAIN MAINTENANCE HOLE
SSMH	SANITARY SEWER MAINTENANCE HOLE
STA	STATION
STD	STANDARD
ST	STREET
TC	TOP OF CURB
TI	TRAFFIC INDEX
TW	TOP OF WALL
TYP	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
UPRR	UNION PACIFIC RAILROAD
V	UNDERGROUND VAULT
VAR	VAR
VC	VERTICAL CURVE
VERT	VERTICAL
W	WATER
WS	WATER SERVICE
(W)	WEST
(E)	EAST
(S)	SOUTH
(N)	NORTH
±	PLUS OR MINUS
(L)	LEFT SIDE OF ROAD
(R)	RIGHT SIDE OF ROAD

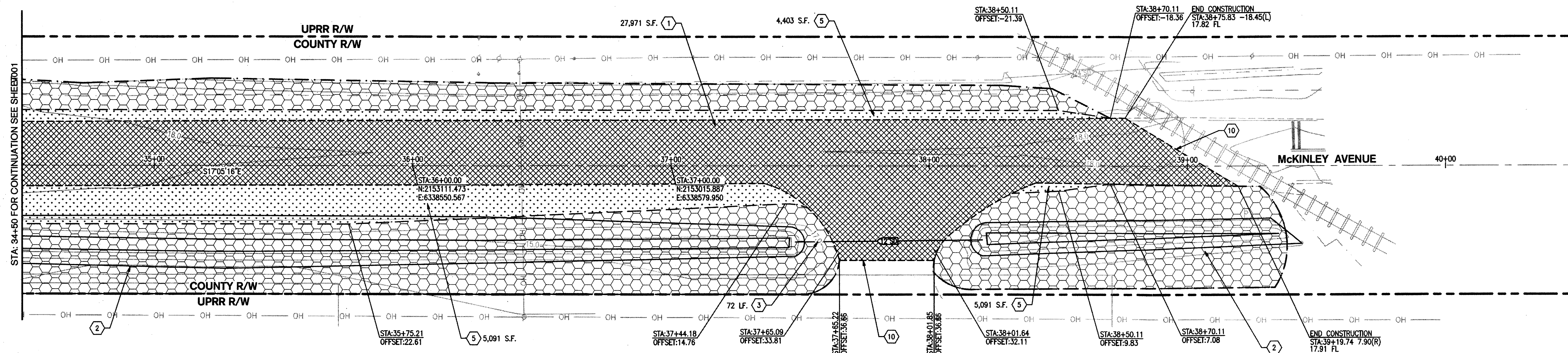


DATE SIGNED: 07/12/16 3244 Brookside Road, Suite 100
Stockton, California 95219



DRAWN BY: MDE	UNION PACIFIC RAILROAD Office of Assistant Vice President Engineering Design/Construction
CHECKED BY: PJS	
DATE: 07/12/2016	
SHEET NUMBER: G003	
LOCATION & DESCRIPTION: Stockton, California Oakland Subdivision MP 90.37 Industrial Drive/McKinley Avenue and UPRR Crossing Safety Improvements	
SHEET TITLE: LEGEND AND ABBREVIATIONS	

5261.2C



LEGEND:

- REMOVE AND DISPOSE OF 3.5" EXISTING ASPHALT PAVEMENT OVER 8" AGGREGATE BASE PER DETAIL 1 ON SHEET R004, TOTAL REMOVAL AND DISPOSAL IS 26" TO SUBGRADE; UNLESS ALTERNATE DETAIL 9 IS USED FOR THE STRUCTURAL SECTION, THEN DISPOSAL IS 17" TO SUBGRADE.
- CLEAR AND GRUB EXISTING UNDEVELOPED AREA FOR NEW STRUCTURAL SECTION PER DETAIL 1 ON SHEET R004, TOTAL REMOVAL AND DISPOSAL IS 26" TO SUBGRADE.
- CLEAR AND GRUB EXISTING UNDEVELOPED AREA FOR GRADING ACTIVITIES

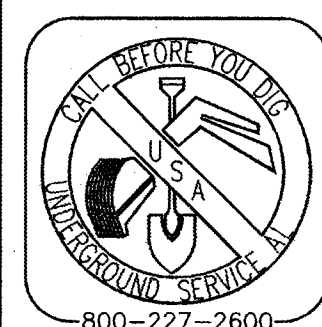
- APPROXIMATE LIMIT OF GRADING

NOTES:

1. ALL QUANTITIES ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD.
2. ALL UTILITIES BOXES AND MONUMENT BOXES WITHIN ROADWAY SHALL BE PROTECTED AND ADJUSTED TO FINISH GRADE, UNLESS OTHERWISE NOTED.
3. REFER TO SHEET SS-1 FOR SIGNING AND STRIPING REMOVAL.
4. IF ANY QUESTIONS ARISE AS TO WHETHER SOMETHING SHOULD BE REMOVED, CONTRACTOR SHALL CONTACT SIEGFRIED ENGINEERING, INC. IMMEDIATELY AT 209-943-2021.

KEY NOTES

- 1 REMOVE AND DISPOSE OF EXISTING ASPHALT CONCRETE, AGGREGATE BASE, AND SUBGRADE
- 2 EXISTING DITCHES TO BE DEMOLISHED (REGRADED)
- 3 EXISTING CULVERT AND PIPE TO BE DEMOLISHED AND DISPOSED OF BY CONTRACTOR
- 4 EXISTING SIGN TO BE REMOVED OR RELOCATED
- 5 CLEAR AND GRUB TO FULL DEPTH IN PREPARATION OF NEW STRUCTURAL SECTION
- 6 PROTECT IN PLACE EXISTING ENCASED GAS LINE
- 7 PROTECT IN PLACE EXISTING WATER METER
- 8 PROTECT IN PLACE EXISTING WATER BACKFLOW PREVENTER
- 9 PROTECT IN PLACE EXISTING SEWER MANHOLE
- 10 SAWCUT EXISTING PAVEMENT
- 11 PROTECT IN PLACE EXISTING GUARDRAIL
- 12 DEMOLISH AND DISPOSE OF EXISTING TOWER STRUCTURE
- 13 REMOVE EXISTING FIRE HYDRANT, AND RETURN TO CITY
- 14 EXISTING SURVEY MONUMENT TO BE REESTABLISHED
- 15 EXISTING BRIDGE DECK TO BE PROTECTED DURING ALL CONSTRUCTION ACTIVITIES
- 16 PROTECT IN PLACE EXISTING UTILITY MANHOLES
- 17 PROTECT IN PLACE EXISTING UTILITY MANHOLE, ADJUST TO FINISH GRADE, INSTALL NEW H-20 TRAFFIC RATED LID.



BENCHMARK:
CITY OF STOCKTON BENCHMARK NO. 119

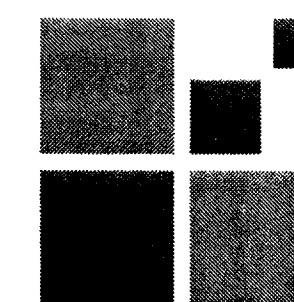
BRASS DISK MARKING C.O.S. MONUMENT STAMPED "3S-2" IN MONUMENT WELL ON THE WEST SIDE OF MCKINLEY AVENUE AT THE APPROXIMATE CENTERLINE OF INDUSTRIAL DRIVE, EAST OF THE WESTERN PACIFIC R.R. R/W, EXTENDED WESTERLY.

ELEVATION = 20.50

DATUM = NAVD 88 (2008 REVISION, CITY OF STOCKTON)



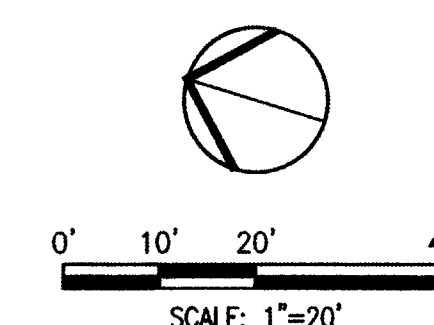
DATE SIGNED: 07/12/16



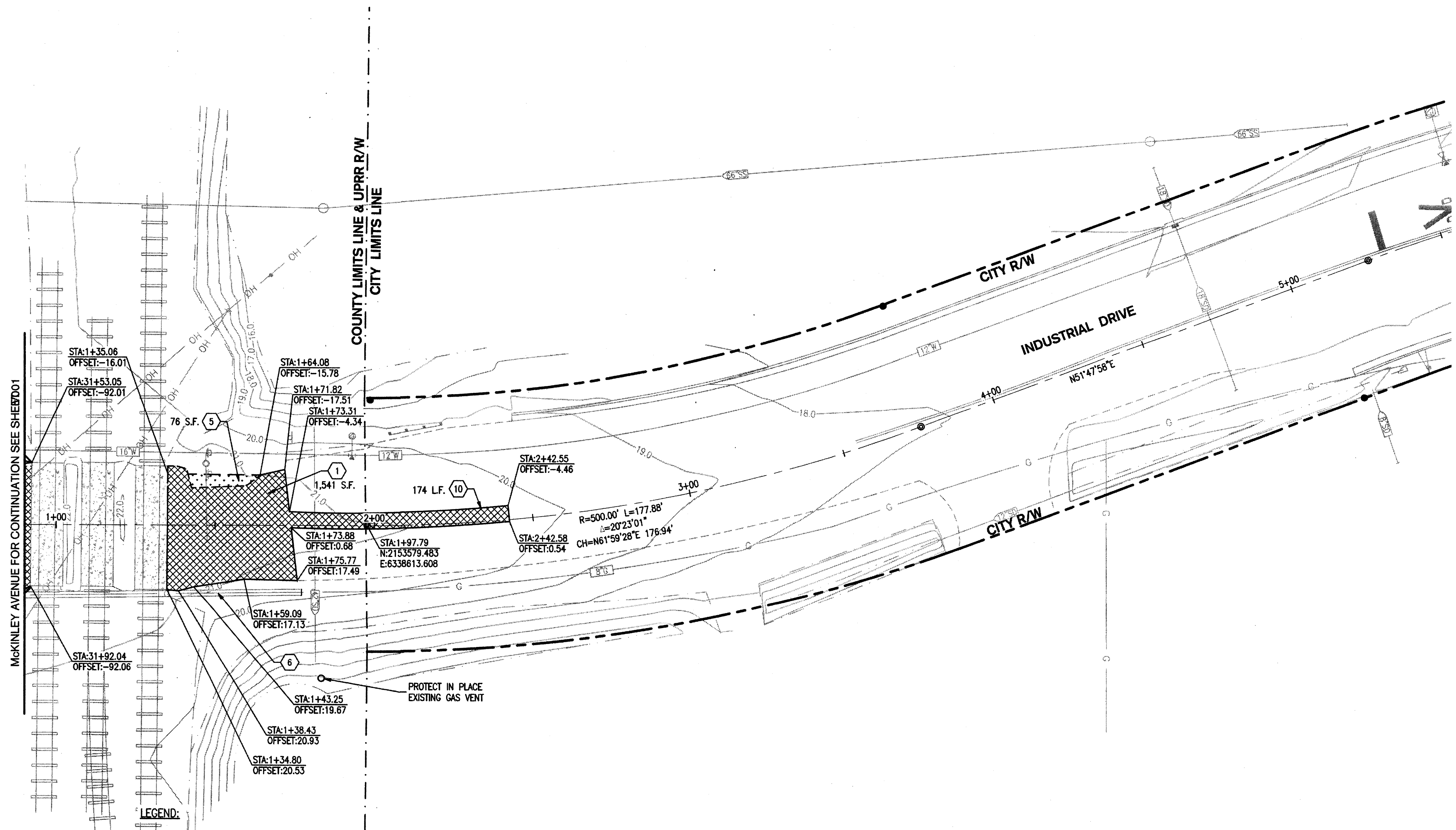
3244 Brookside Road, Suite 100
Stockton, California 95219



DRAWN BY: MDE	UNION PACIFIC RAILROAD	Office of Assistant Vice President Engineering Design/Construction
CHECKED BY: PJS	LOCATION & DESCRIPTION:	Stockton, California Oakland Subdivision MP 90.37
DATE: 07/12/2016		Industrial Drive/McKinley Avenue and UPRR Crossing Safety Improvements
SHEET NUMBER V002	SHEET TITLE:	TOPOGRAPHIC AND DEMOLITION PLAN MCKINLEY AVE. STA 34+50 TO 40+50



5261.4C



LEGEND:

- REMOVE AND DISPOSE OF 3.5" EXISTING ASPHALT PAVEMENT OVER 8" AGGREGATE BASE PER DETAIL 1 ON SHEET R004, TOTAL REMOVAL AND DISPOSAL IS 26" TO SUBGRADE, UNLESS ALTERNATE DETAIL 9 IS USED FOR THE STRUCTURAL SECTION, THEN DISPOSAL IS 17" TO SUBGRADE.
- CLEAR AND GRUB EXISTING UNDEVELOPED AREA FOR NEW STRUCTURAL SECTION PER DETAIL 1 ON SHEET R004, TOTAL REMOVAL AND DISPOSAL IS 26" TO SUBGRADE.
- CLEAR AND GRUB EXISTING UNDEVELOPED AREA FOR GRADING ACTIVITIES

--- APPROXIMATE LIMIT OF GRADING

NOTES:

1. ALL QUANTITIES ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD.
2. ALL UTILITIES BOXES AND MONUMENT BOXES WITHIN ROADWAY SHALL BE PROTECTED AND ADJUSTED TO FINISH GRADE, UNLESS OTHERWISE NOTED.
3. REFER TO SHEET SS-1 FOR SIGNING AND STRIPING REMOVAL.
4. IF ANY QUESTIONS ARISE AS TO WHETHER SOMETHING SHOULD BE REMOVED, CONTRACTOR SHALL CONTACT SIEGFRIED ENGINEERING, INC. IMMEDIATELY AT 209-943-2021.

KEY NOTES

1. REMOVE AND DISPOSE OF EXISTING ASPHALT CONCRETE, AGGREGATE BASE, AND SUBGRADE
2. EXISTING DITCHES TO BE DEMOLISHED (REGRADED)
3. EXISTING CULVERT AND PIPE TO BE DEMOLISHED AND DISPOSED OF BY CONTRACTOR
4. EXISTING SIGN TO BE REMOVED OR RELOCATED
5. CLEAR AND GRUB TO FULL DEPTH IN PREPARATION OF NEW STRUCTURAL SECTION
6. PROTECT IN PLACE EXISTING ENCASED GAS LINE
7. PROTECT IN PLACE EXISTING WATER METER
8. PROTECT IN PLACE EXISTING WATER BACKFLOW PREVENTER
9. PROTECT IN PLACE EXISTING SEWER MANHOLE
10. SAWCUT EXISTING PAVEMENT
11. PROTECT IN PLACE EXISTING GUARDRAIL
12. DEMOLISH AND DISPOSE OF EXISTING TOWER STRUCTURE
13. REMOVE EXISTING FIRE HYDRANT, AND RETURN TO CITY
14. EXISTING SURVEY MONUMENT TO BE REESTABLISHED
15. EXISTING BRIDGE DECK TO BE PROTECTED DURING ALL CONSTRUCTION ACTIVITIES
16. PROTECT IN PLACE EXISTING UTILITY MANHOLES
17. PROTECT IN PLACE EXISTING UTILITY MANHOLE, ADJUST TO FINISH GRADE, INSTALL NEW H-20 TRAFFIC RATED LID.

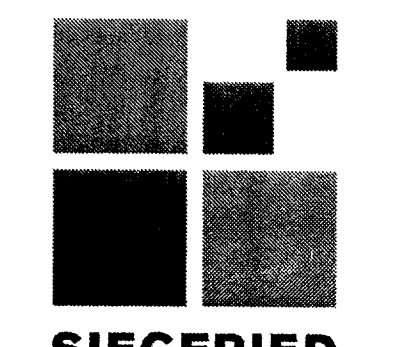
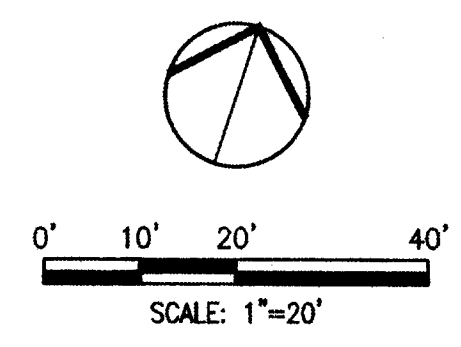


BENCHMARK:
CITY OF STOCKTON BENCHMARK NO. 119

BRASS DISK MARKING C.O.S. MONUMENT STAMPED "35-2" IN MONUMENT WELL ON THE WEST SIDE OF MCKINLEY AVENUE AT THE APPROXIMATE CENTERLINE OF INDUSTRIAL DRIVE, EAST OF THE WESTERN PACIFIC R.R. R/W, EXTENDED WESTERLY.

ELEVATION = 20.50

DATUM = NAVD 88 (2008 REVISION, CITY OF STOCKTON)

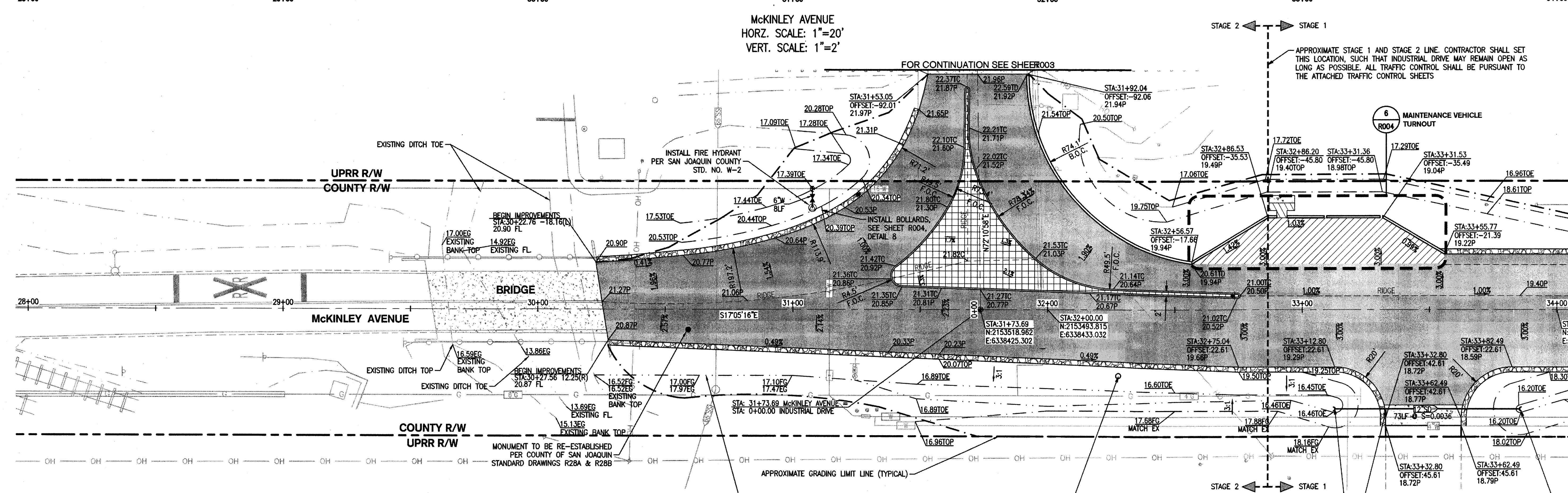
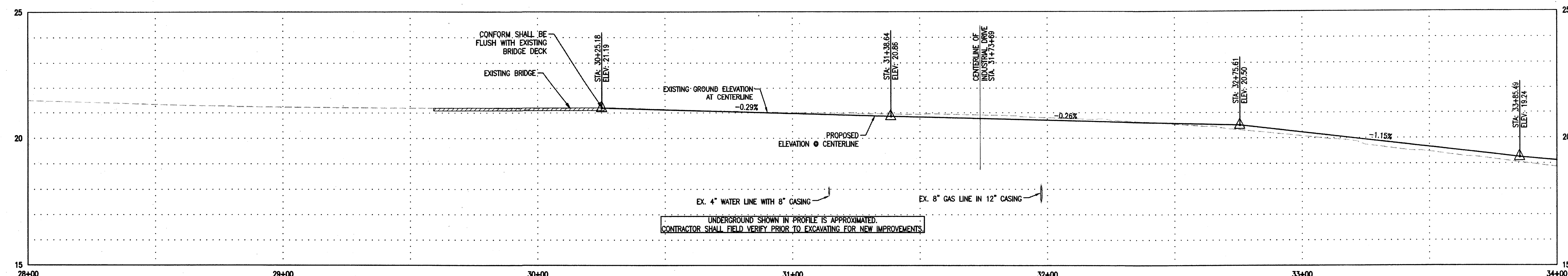


DATE SIGNED: 07/12/16 3244 Brookside Road, Suite 100 Stockton, California 95219



DRAWN BY: MDE	UNION PACIFIC RAILROAD	Office of Assistant Vice President Engineering Design/Construction
CHECKED BY: PJS		
DATE: 07/12/2016	LOCATION & DESCRIPTION: Stockton, California Oakland Subdivision MP 90.37 Industrial Drive/McKinley Avenue and UPRR Crossing Safety Improvements	
SHEET NUMBER V003	SHEET TITLE: TOPOGRAPHIC AND DEMOLITION PLAN INDUSTRIAL DR. STA 1+00 TO 5+50	

5261-5C



- LEGEND**
- GRAVEL SHOULDER
CLASS II AGGREGATE BASE COMPACTED TO 95%;
2" MINIMUM WIDTH, 6" DEEP
 - AC PAVEMENT
SEE DETAIL 3 AND 9 ON SHEET R004
 - STAMPED AND COLORED CONCRETE MEDIAN FILL
SEE DETAIL 4 ON SHEET R004
 - EXISTING CONCRETE AT RAILROAD TRACKS AND BRIDGE DECK
EXISTING CONCRETE TO BE UNDISTURBED UNLESS OTHERWISE NOTED
 - AC PAVEMENT
SEE DETAIL 6 ON SHEET R004

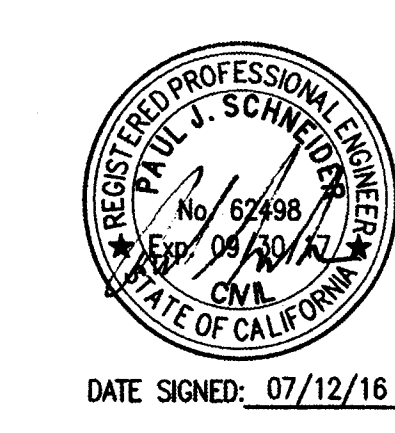


BENCHMARK:
CITY OF STOCKTON BENCHMARK NO. 119

BRASS DISK MARKING C.O.S. MONUMENT STAMPED "35-2" IN MONUMENT WELL ON THE WEST SIDE OF McKINLEY AVENUE AT THE APPROXIMATE CENTERLINE OF INDUSTRIAL DRIVE, EAST OF THE WESTERN PACIFIC R.R. R/W, EXTENDED WESTERLY.

ELEVATION = 20.50

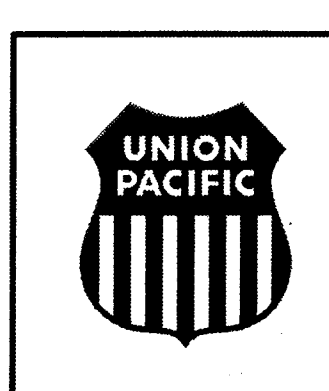
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SIEGFRIED

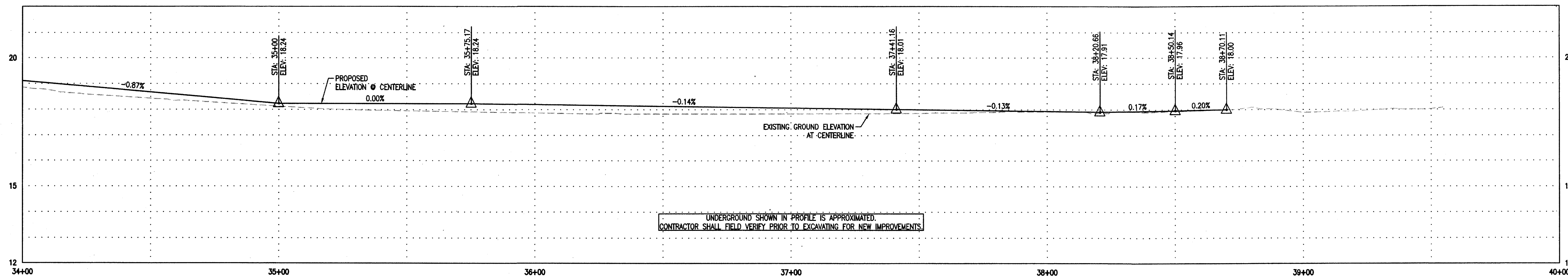
3244 Brookside Road, Suite 100
Stockton, California 95219

DATE SIGNED: 07/12/16

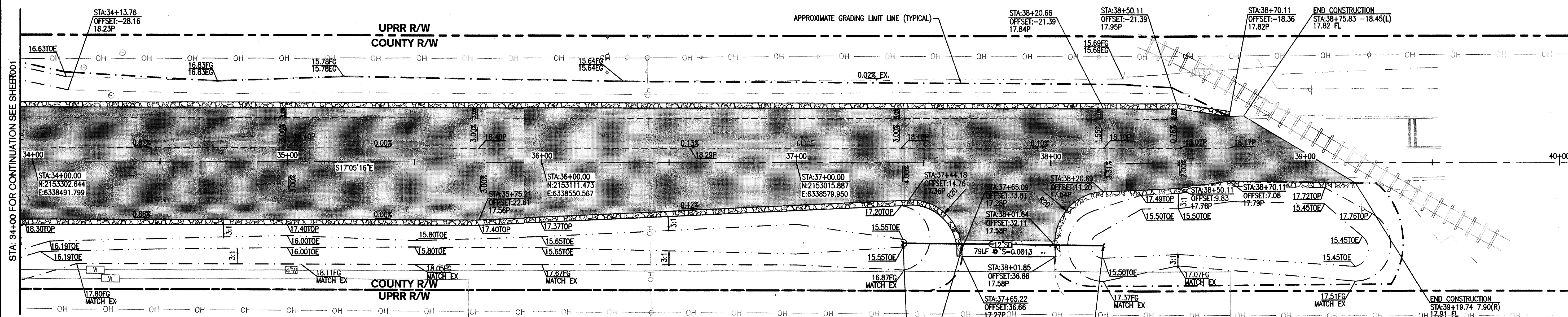


DRAWN BY: MDE	UNION PACIFIC RAILROAD	Office of Assistant Vice President Engineering Design/Construction
CHECKED BY: PJS	LOCATION & DESCRIPTION:	Stockton, California
DATE: 07/12/2016	Industrial Subdivision MP 90.37	Oakland Subdivision MP 90.37
SHEET NUMBER R001	SHEET TITLE:	Industrial Drive/McKinley Avenue and UPRR Crossing Safety Improvements
		STA 28+00 TO 34+00

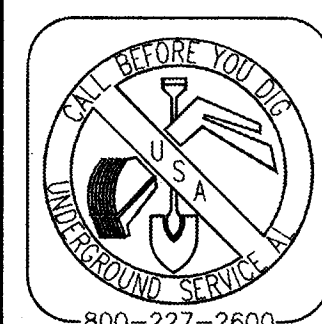
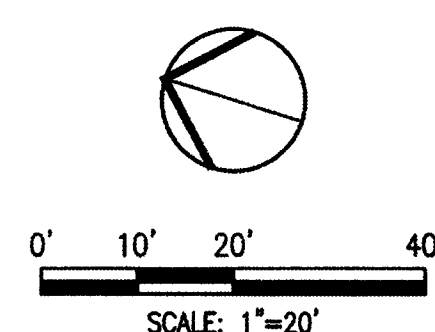
5261.6C



McKINLEY AVENUE
 HORZ. SCALE: 1"=20'
 VERT. SCALE: 1"=2'



- LEGEND**
- GRAVEL SHOULDER
CLASS II AGGREGATE BASE COMPACTED TO 95%;
2' MINIMUM WIDTH, 6" DEEP
 - AC PAVEMENT
SEE DETAIL 3 AND 9 ON SHEET R004
 - STAMPED AND COLORED CONCRETE MEDIAN FILL
SEE DETAIL 4 ON SHEET R004
 - EXISTING CONCRETE AT RAILROAD TRACKS
EXISTING CONCRETE TO BE UNDISTURBED
UNLESS OTHERWISE NOTED



BENCHMARK:
CITY OF STOCKTON BENCHMARK NO. 119

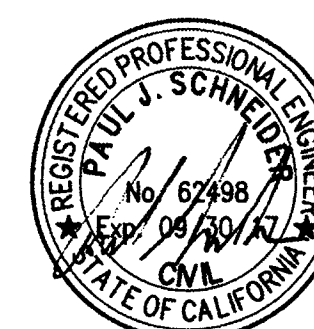
BRASS DISK MARKING C.O.S. MONUMENT STAMPED "35-2" IN MONUMENT WELL ON THE WEST SIDE OF McKINLEY AVENUE AT THE APPROXIMATE CENTERLINE OF INDUSTRIAL DRIVE, EAST OF THE WESTERN PACIFIC R.R. R/W, EXTENDED WESTERLY.

ELEVATION = 20.50

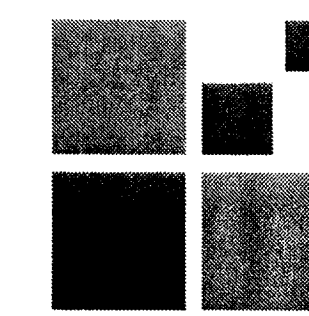
DATUM = NAVD 88 (2008 REVISION, CITY OF STOCKTON)

INSTALL CALTRANS STANDARD FLARED END SECTION AT INVERT = 15.55, WITH TYPE I OR III CONNECTION PER CALTRANS STANDARD SPECIFICATIONS SECTION 70 AND DRAWING D94A. INSTALL RIP RAP AT OUTLET TO PROTECT AGAINST SEDIMENT BUILDUP

INSTALL 4,000 PSI CONCRETE FROM FINISH GRADE TO TOP OF 12" C.M.P. PIPE.

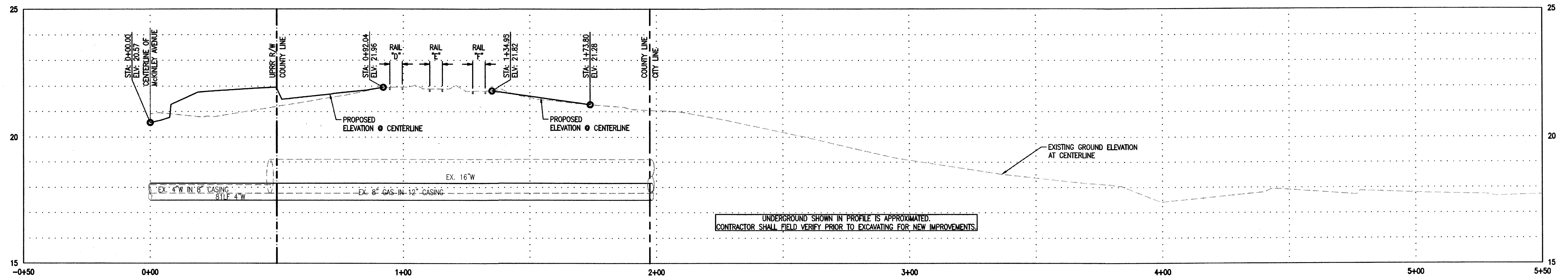


DATE SIGNED: 07/12/16
 3244 Brookside Road, Suite 100
 Stockton, California 95219

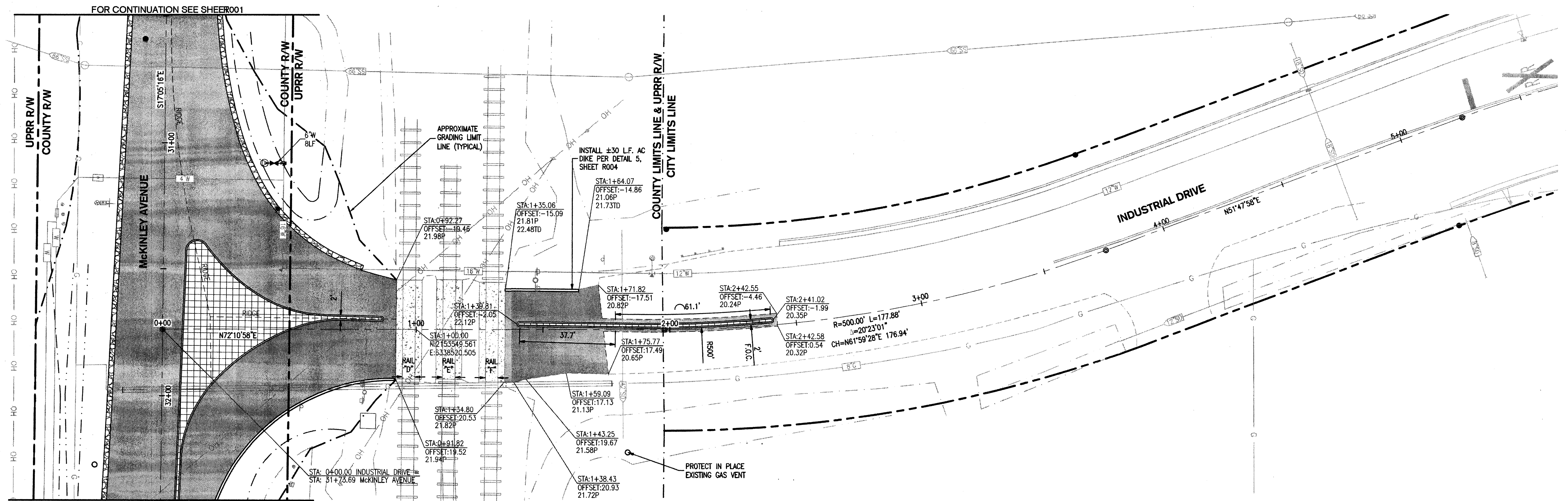


DRAWN BY: MDE	UNION PACIFIC RAILROAD	Office of Assistant Vice President Engineering Design/Construction
CHECKED BY: PJS	LOCATION & DESCRIPTION:	Stockton, California Oakland Subdivision MP 90.37 Industrial Drive/McKinley Avenue and UPRR Crossing Safety Improvements
DATE: 07/12/2016	SHEET TITLE:	PLAN AND PROFILE MCKINLEY AVE. STA 34+00 TO 40+00
SHEET NUMBER R002		

5261.7c



INDUSTRIAL DRIVE
 HORZ. SCALE: 1"=20'
 VERT. SCALE: 1"=2'



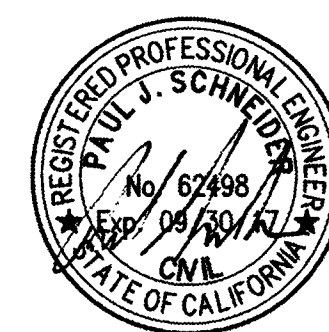
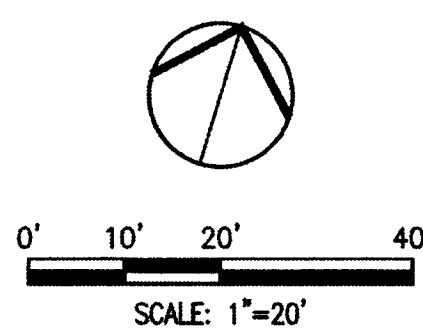
BENCHMARK:
 CITY OF STOCKTON BENCHMARK NO. 119

BRASS DISK MARKING C.O.S. MONUMENT STAMPED "3S-2" IN MONUMENT WELL ON THE WEST SIDE OF MCKINLEY AVENUE AT THE APPROXIMATE CENTERLINE OF INDUSTRIAL DRIVE, EAST OF THE WESTERN RAILROAD R/W, EXTENDED WESTERLY.

ELEVATION = 20.50

LEGEND

- GRAVEL SHOULDER
CLASS II AGGREGATE BASE COMPACTED TO 95%;
2' MINIMUM WIDTH, 6" DEEP
- AC PAVEMENT
SEE DETAIL 3 AND 9 ON SHEET R004
- STAMPED AND COLORED CONCRETE MEDIAN FILL
SEE DETAIL 4 ON SHEET R004
- EXISTING CONCRETE AT RAILROAD TRACKS
EXISTING CONCRETE TO BE UNDISTURBED
UNLESS OTHERWISE NOTED



DRAWN BY: MDE
 CHECKED BY: PJS
 DATE: 07/12/2016
 SHEET NUMBER

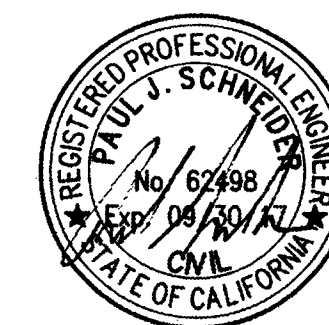
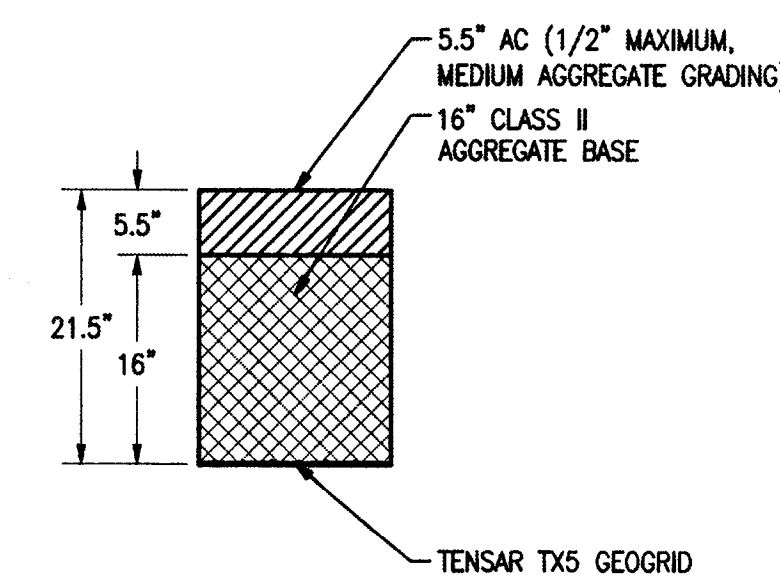
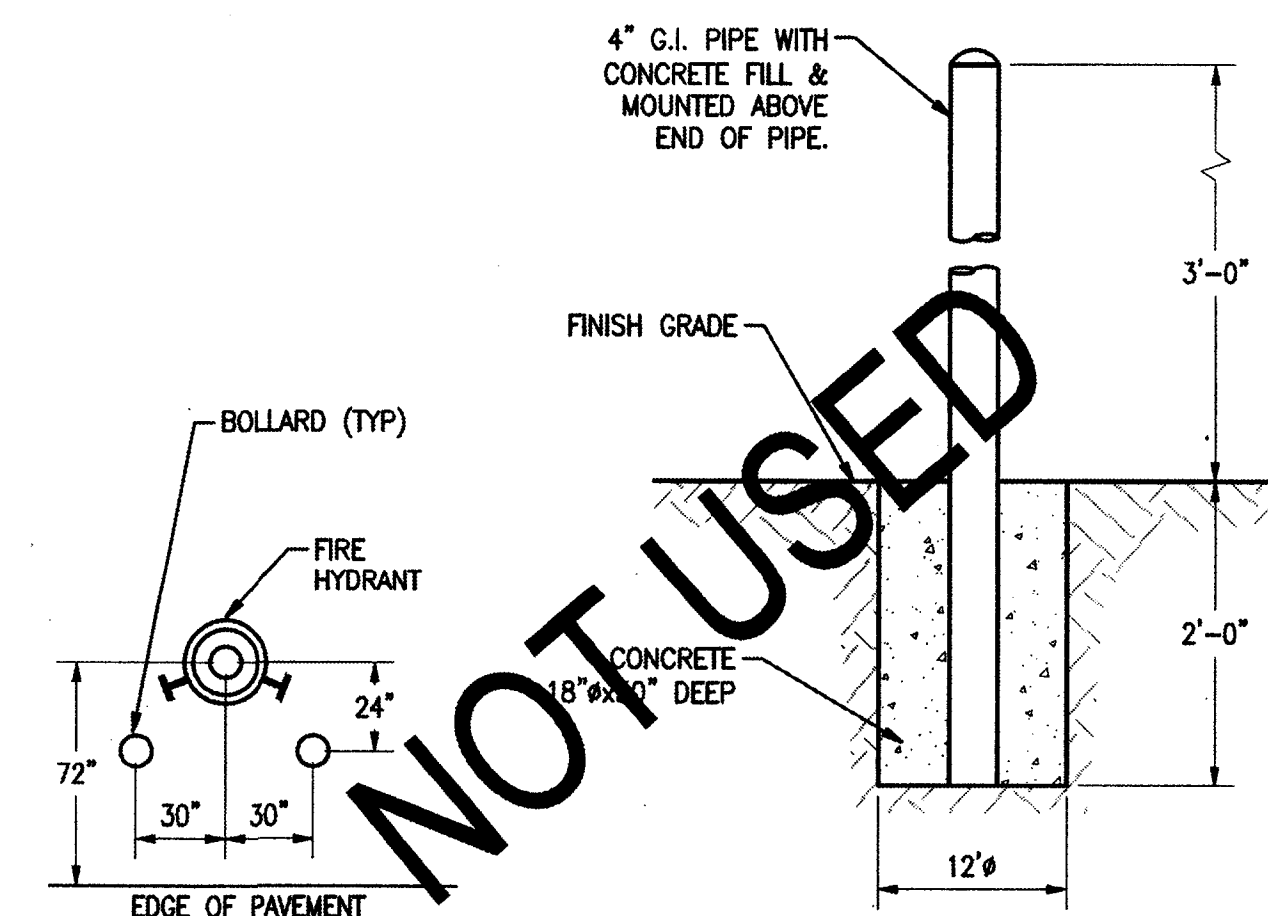
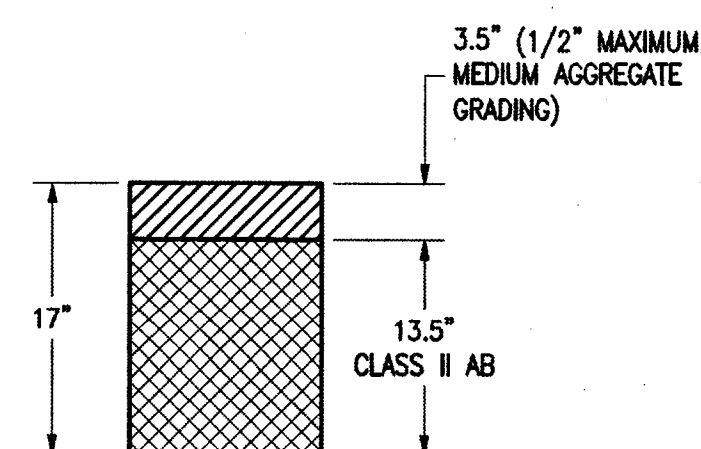
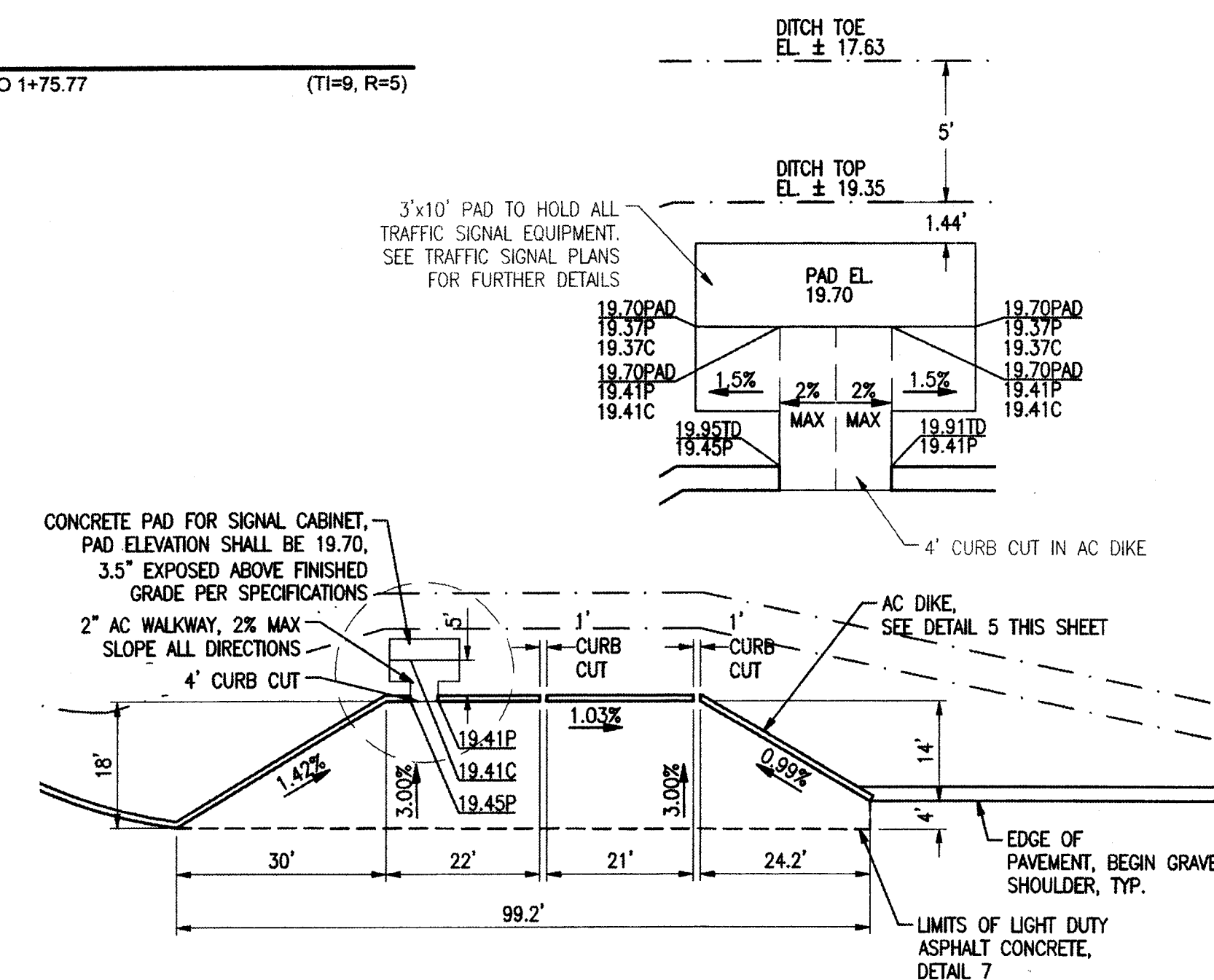
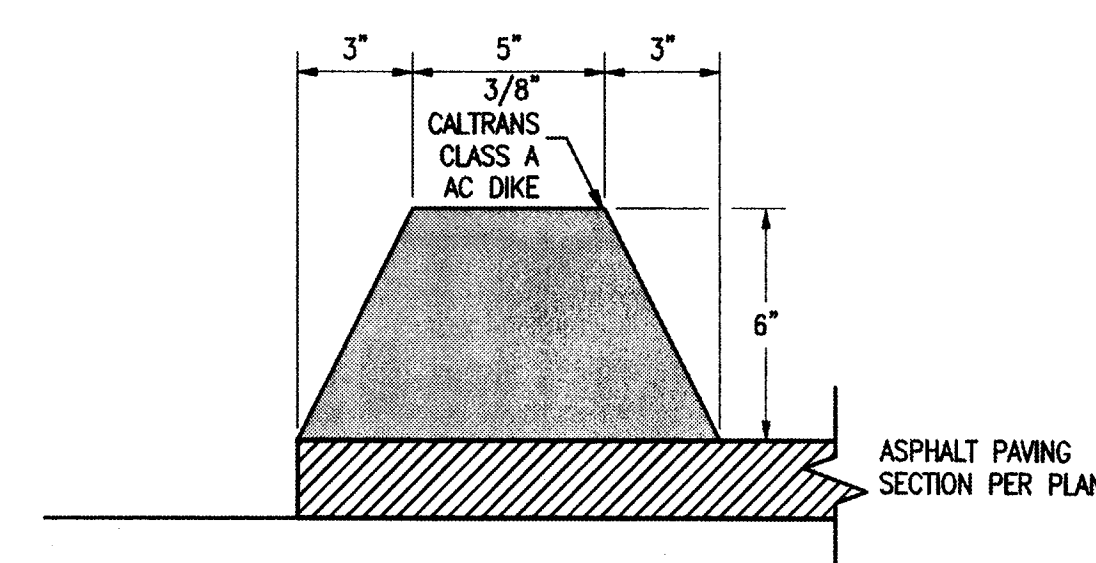
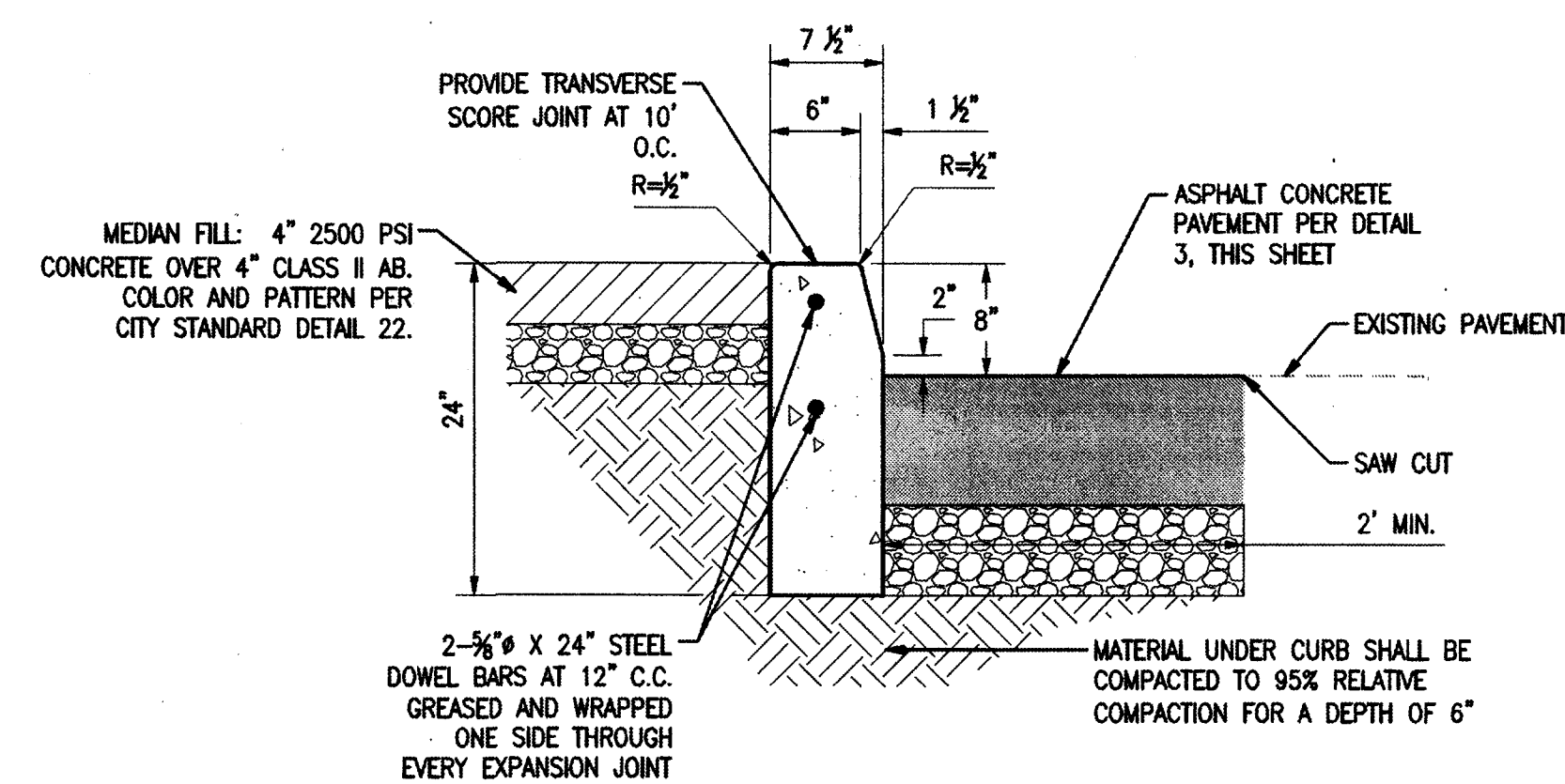
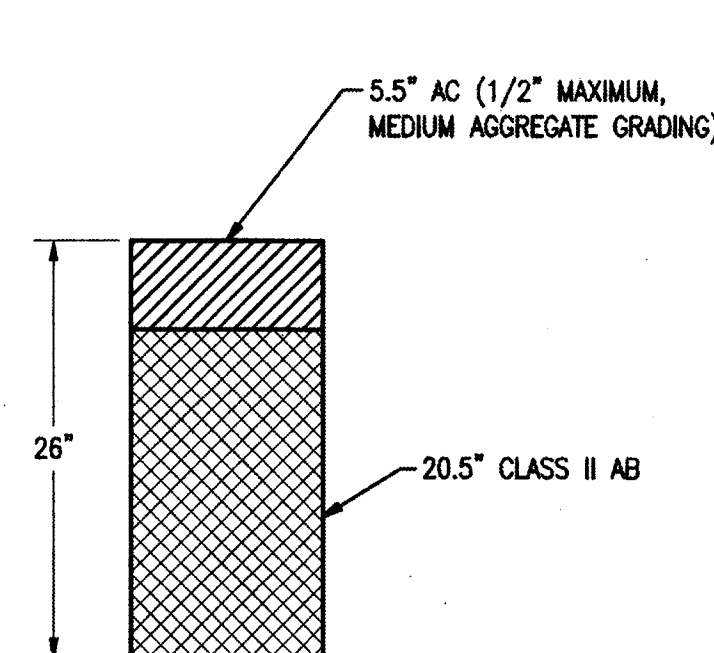
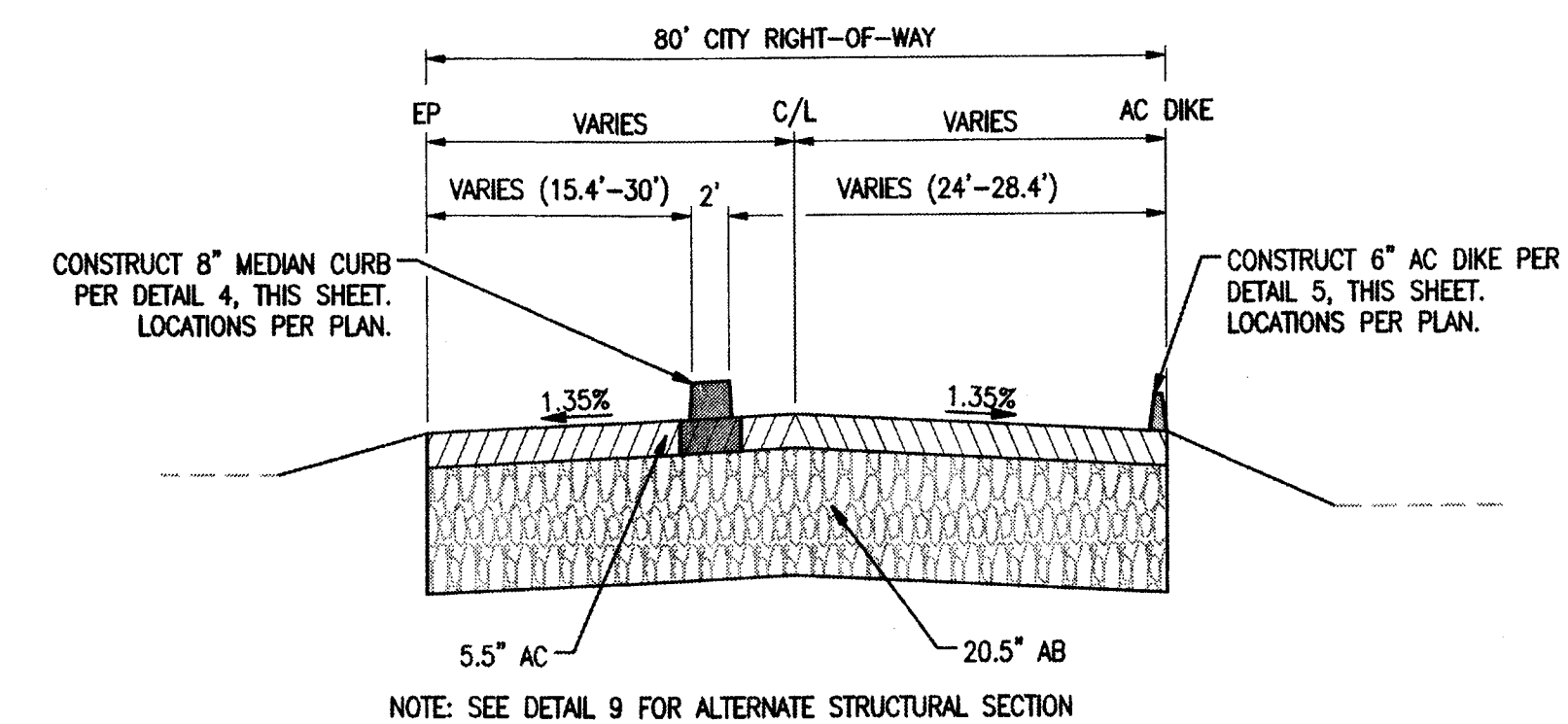
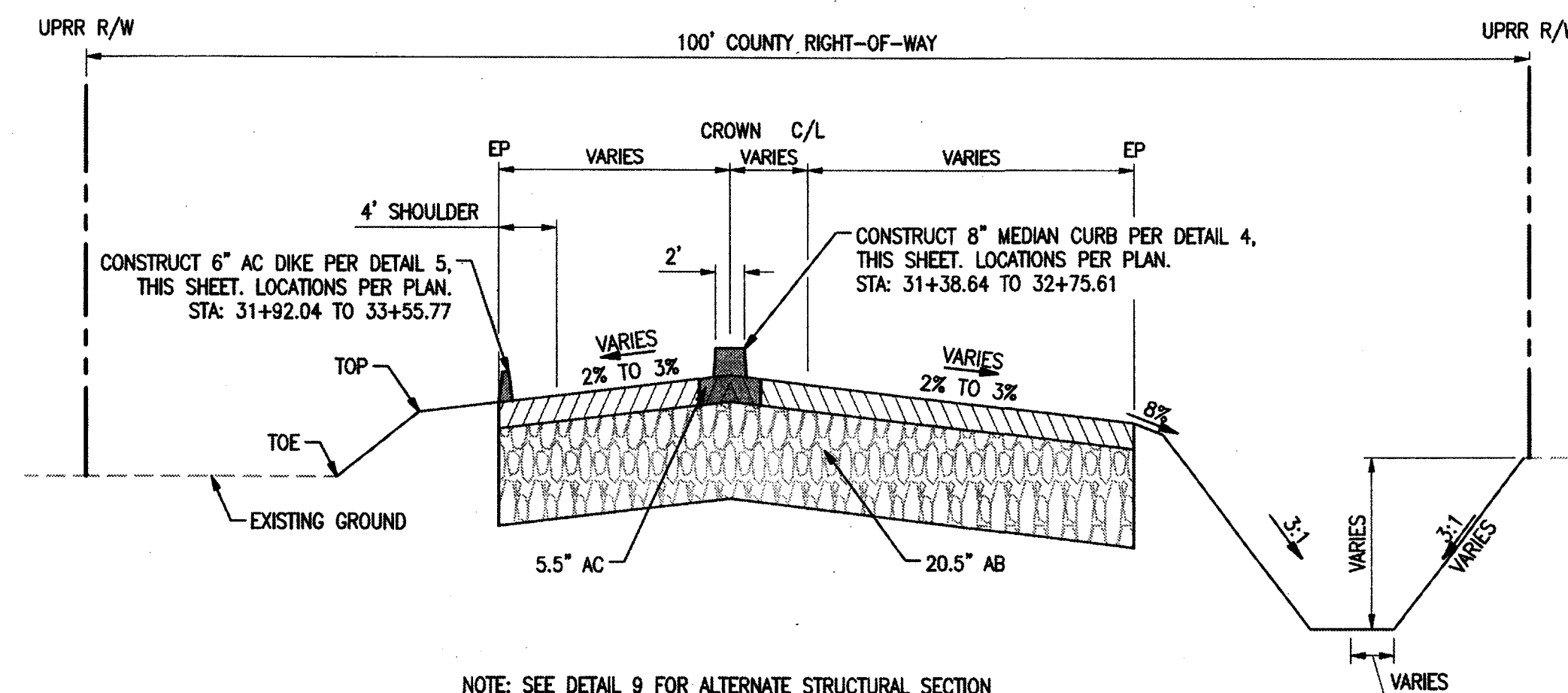
UNION PACIFIC RAILROAD

LOCATION & DESCRIPTION:

Stockton, California
 Oakland Subdivision MP 90.37
 Industrial Drive/McKinley Avenue and UPRR Crossing Safety Improvements

Office of Assistant Vice President
 Engineering Design/Construction

SHEET TITLE: **PLAN AND PROFILE INDUSTRIAL DR**



DATE SIGNED: 07/12/16

6 3244 Brookside Road, Suite 100
Stockton, California 95219

SIEGFRIED



DRAWN BY:

M

CHECKED BY

DATE:

**UNION PACIFIC
RAILROAD**

IS LOCATION & DESCRIPTION:

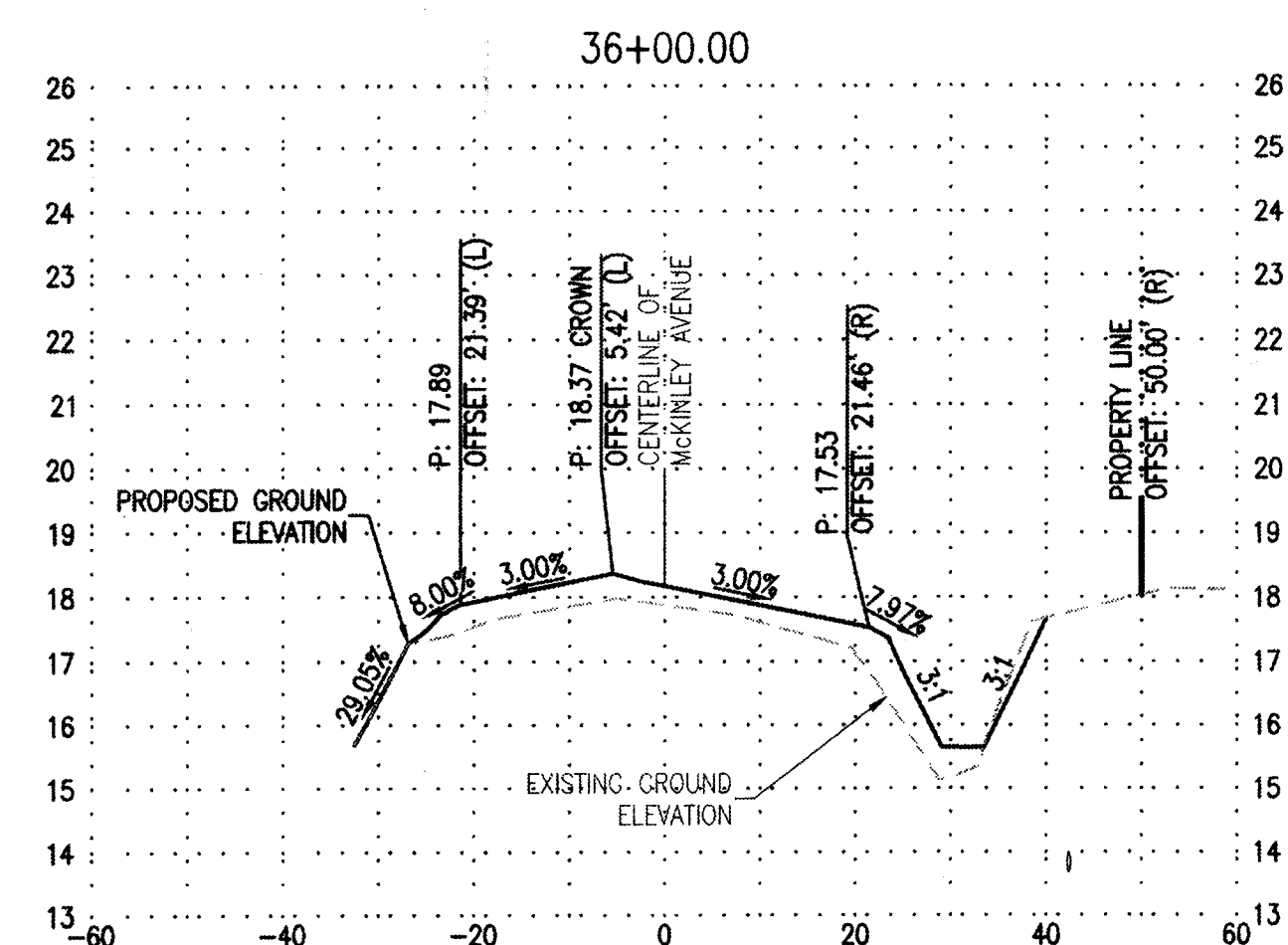
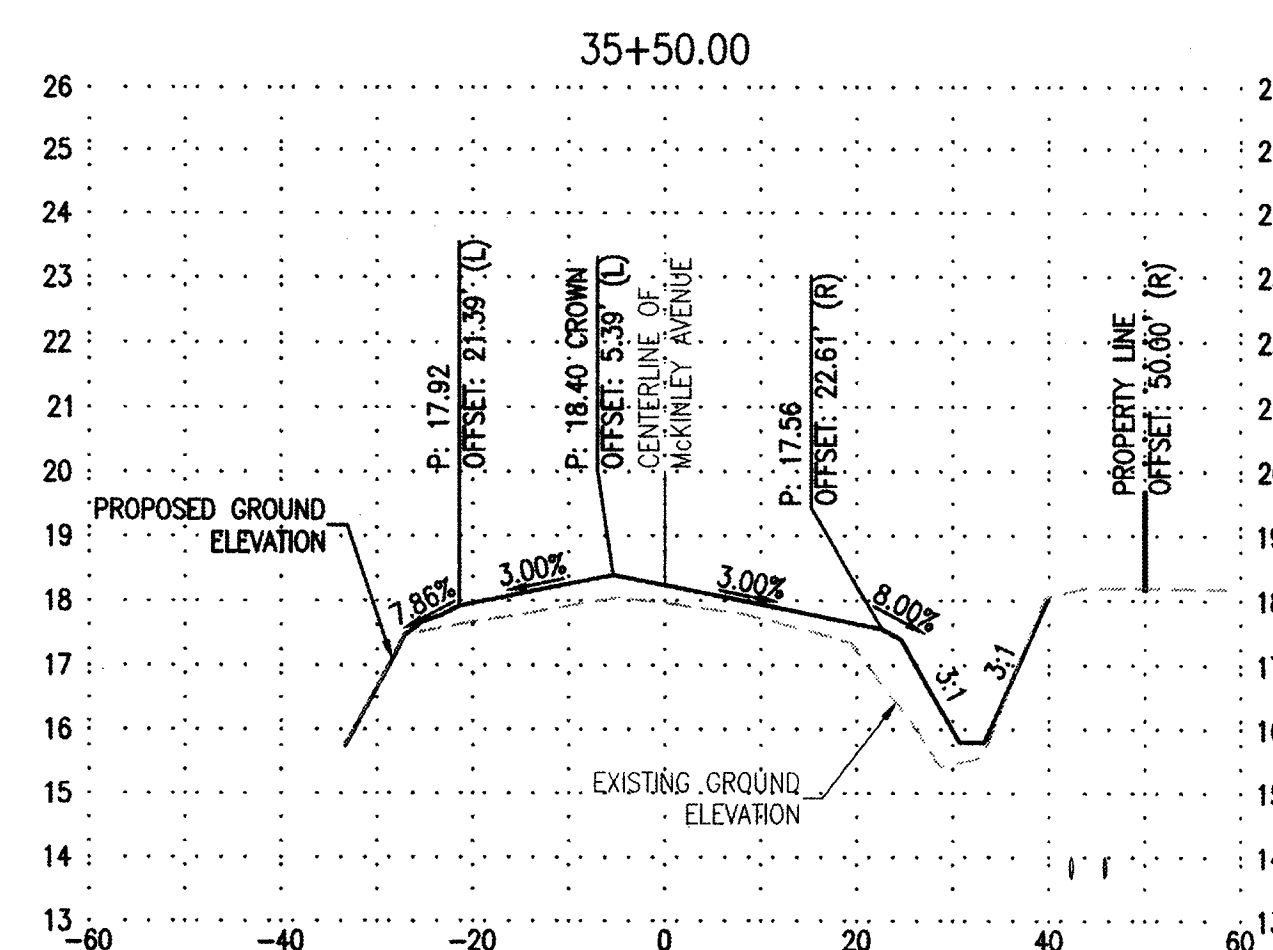
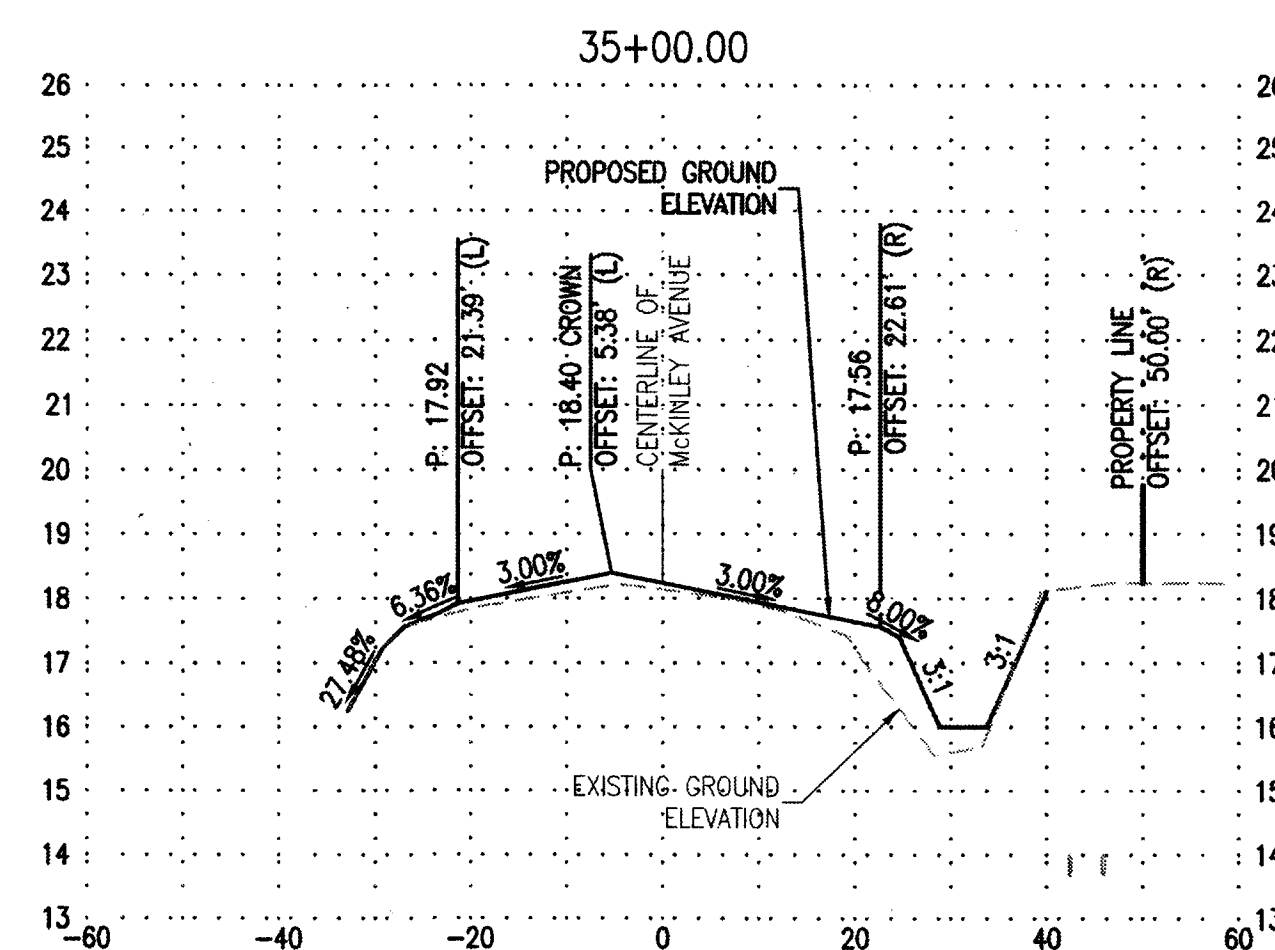
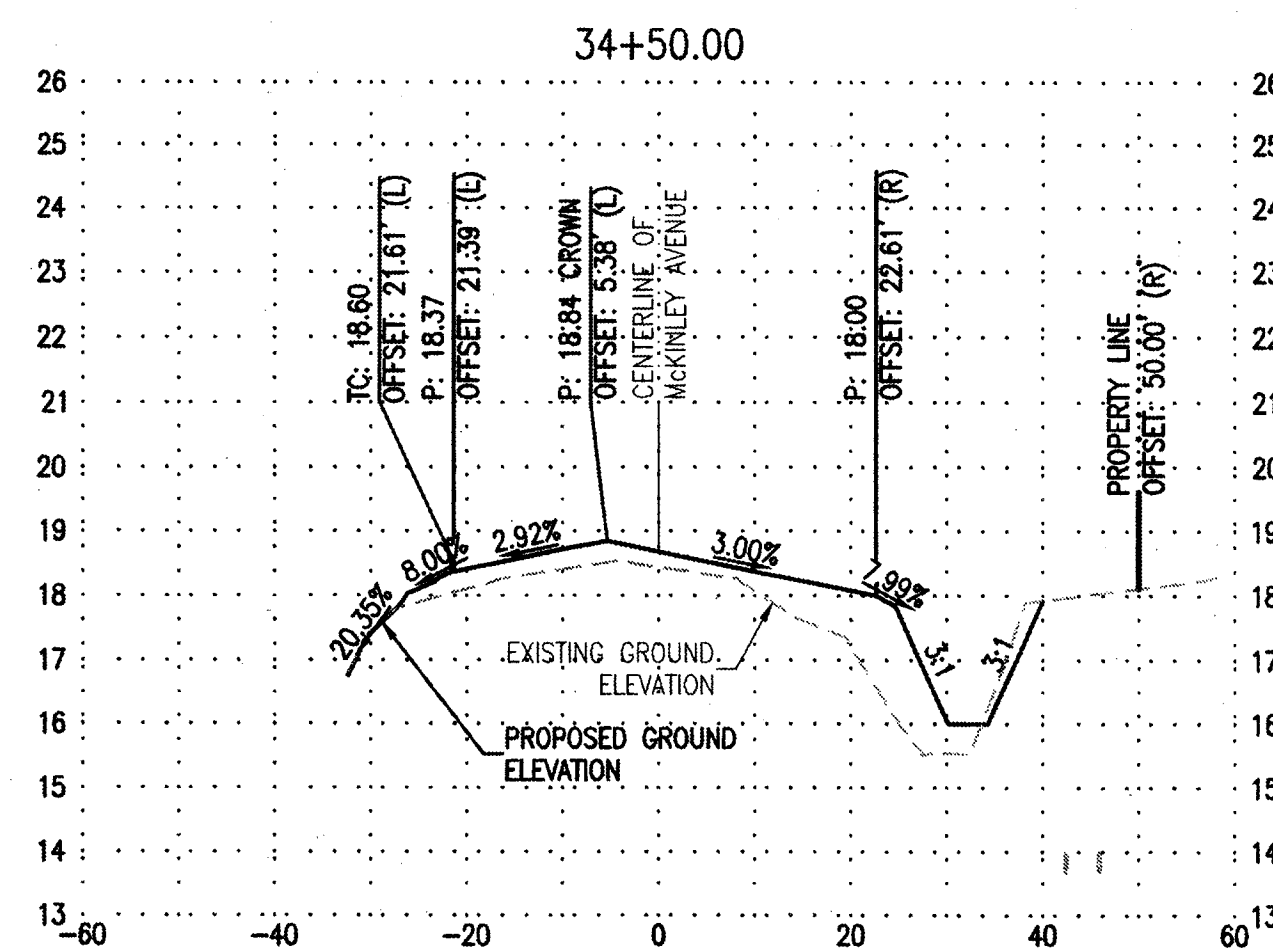
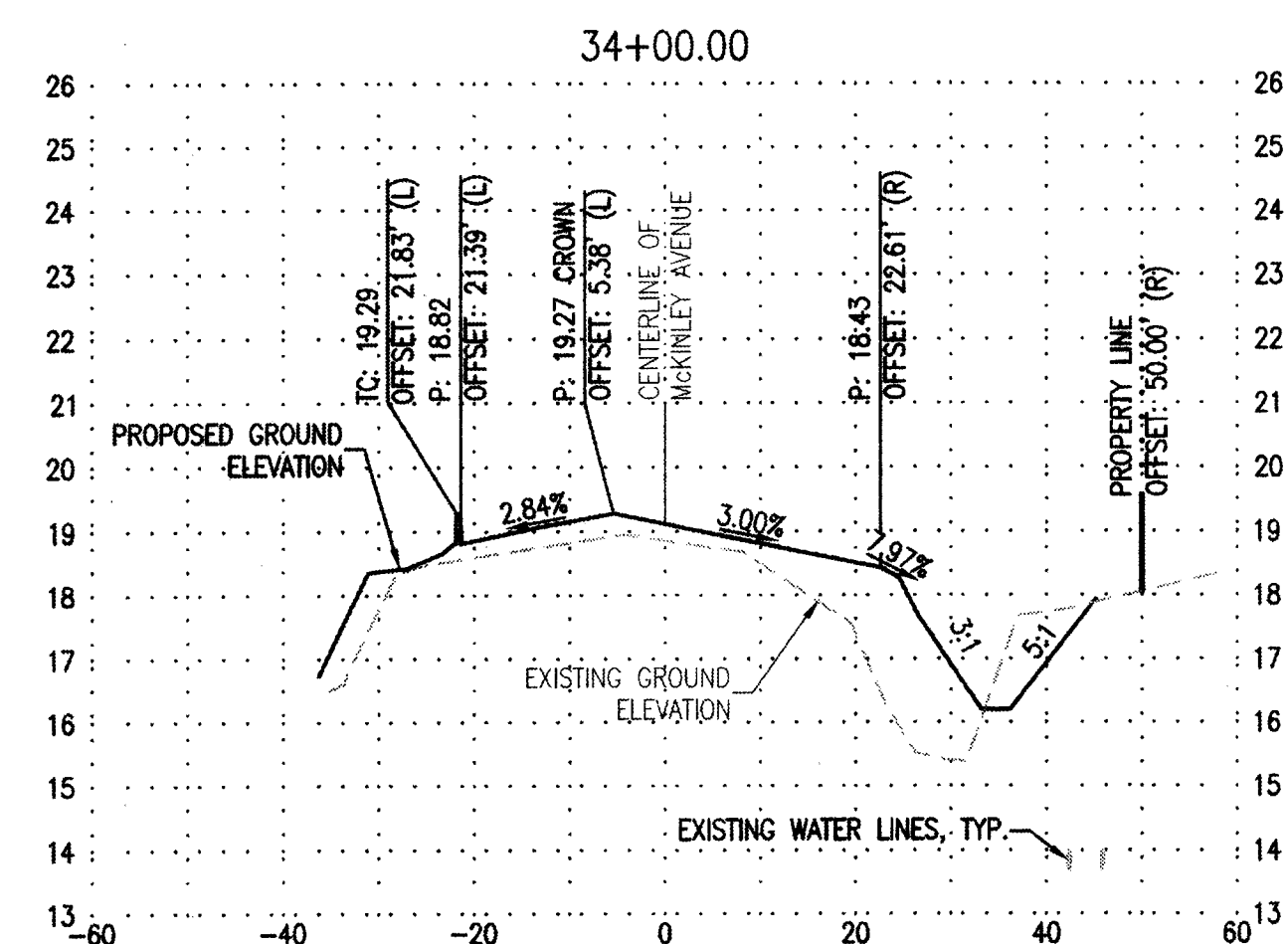
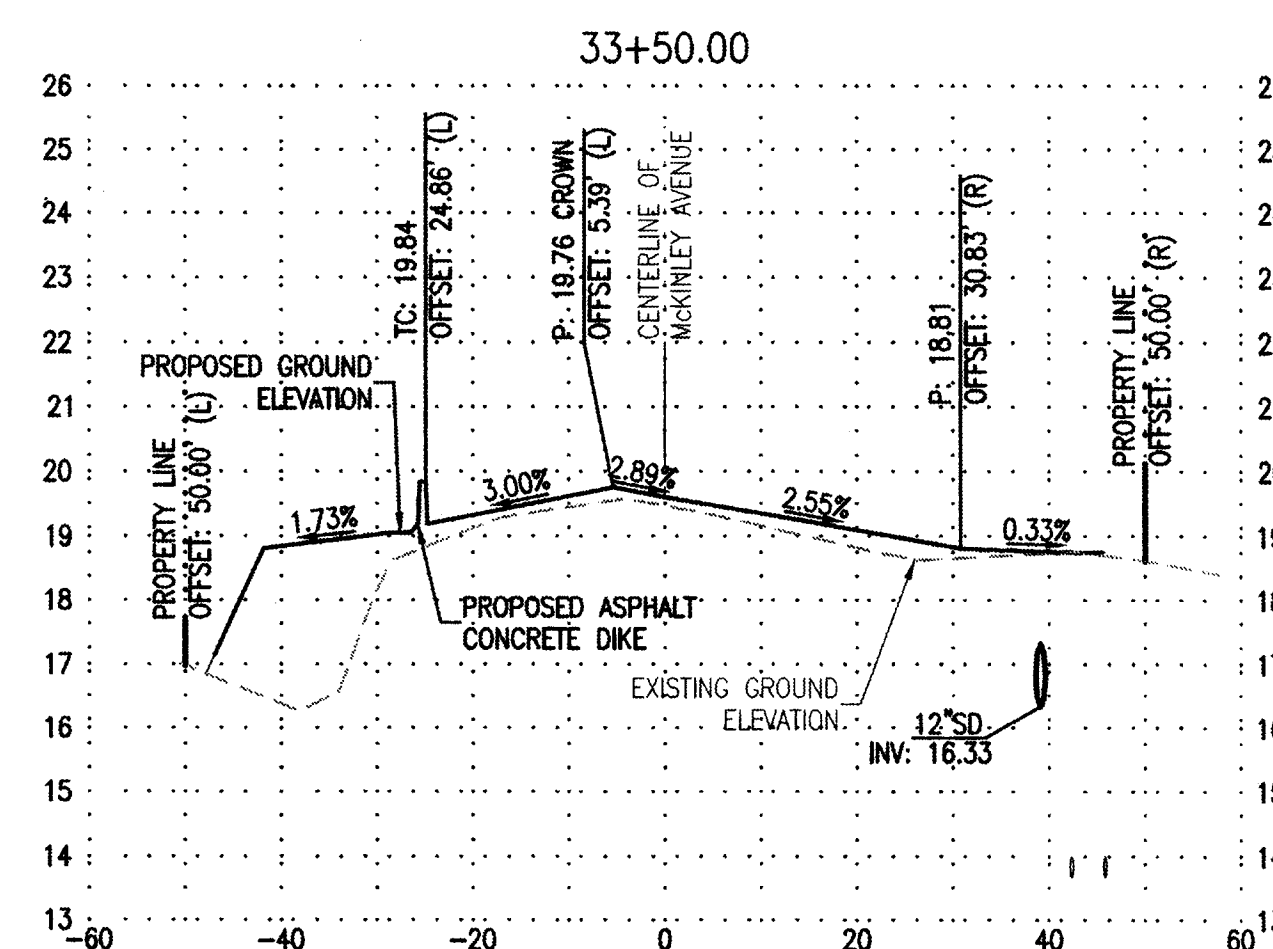
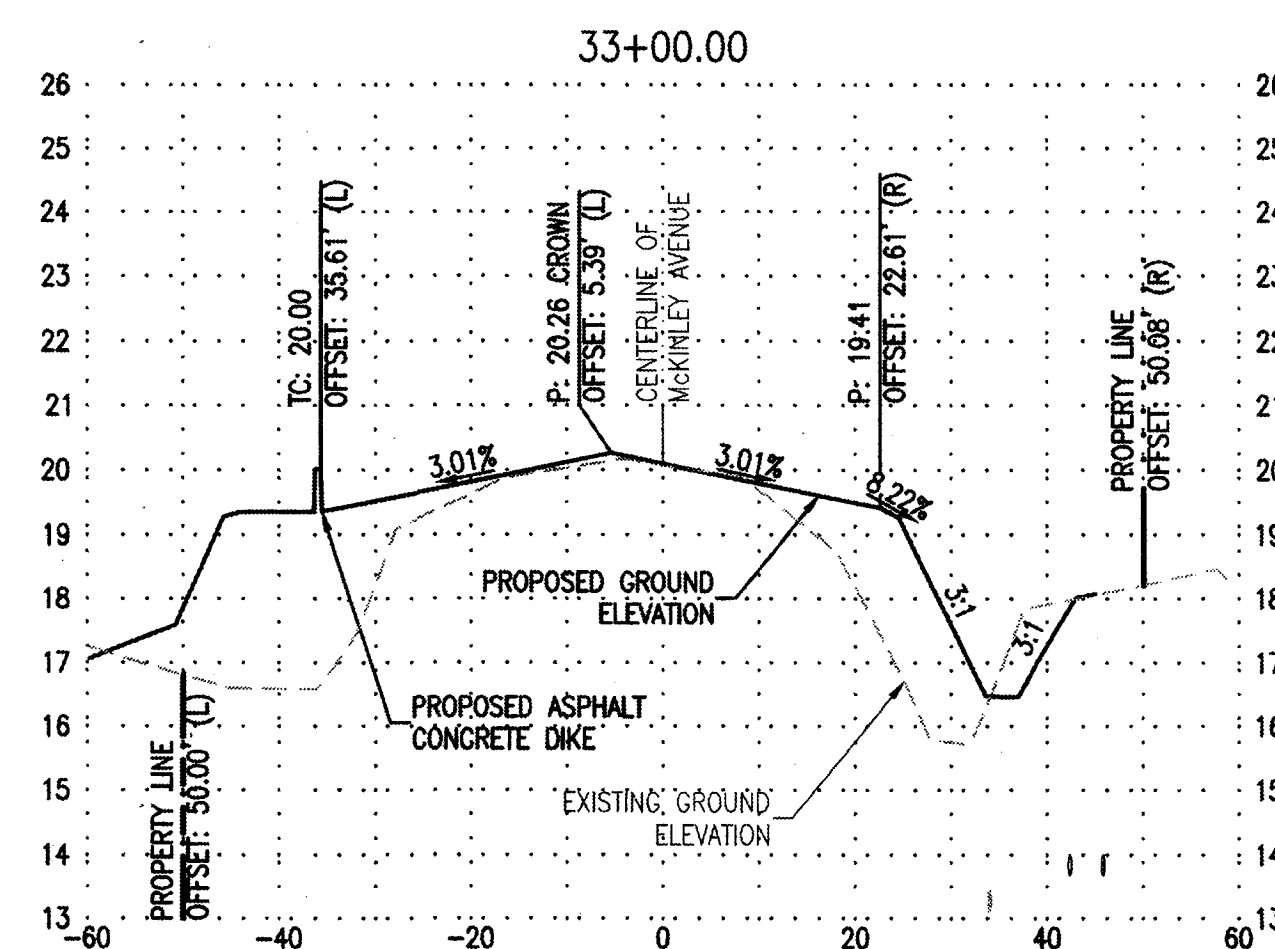
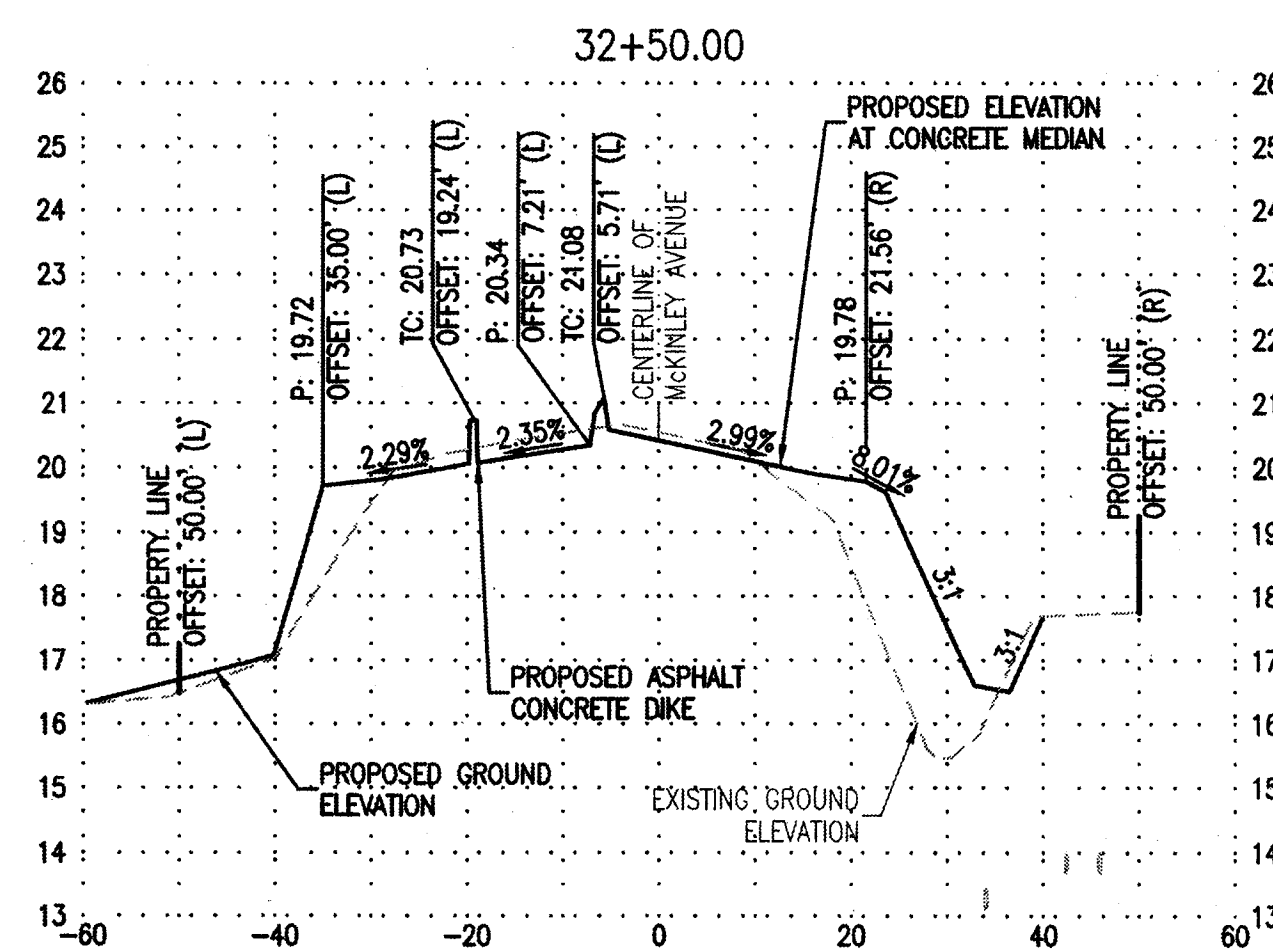
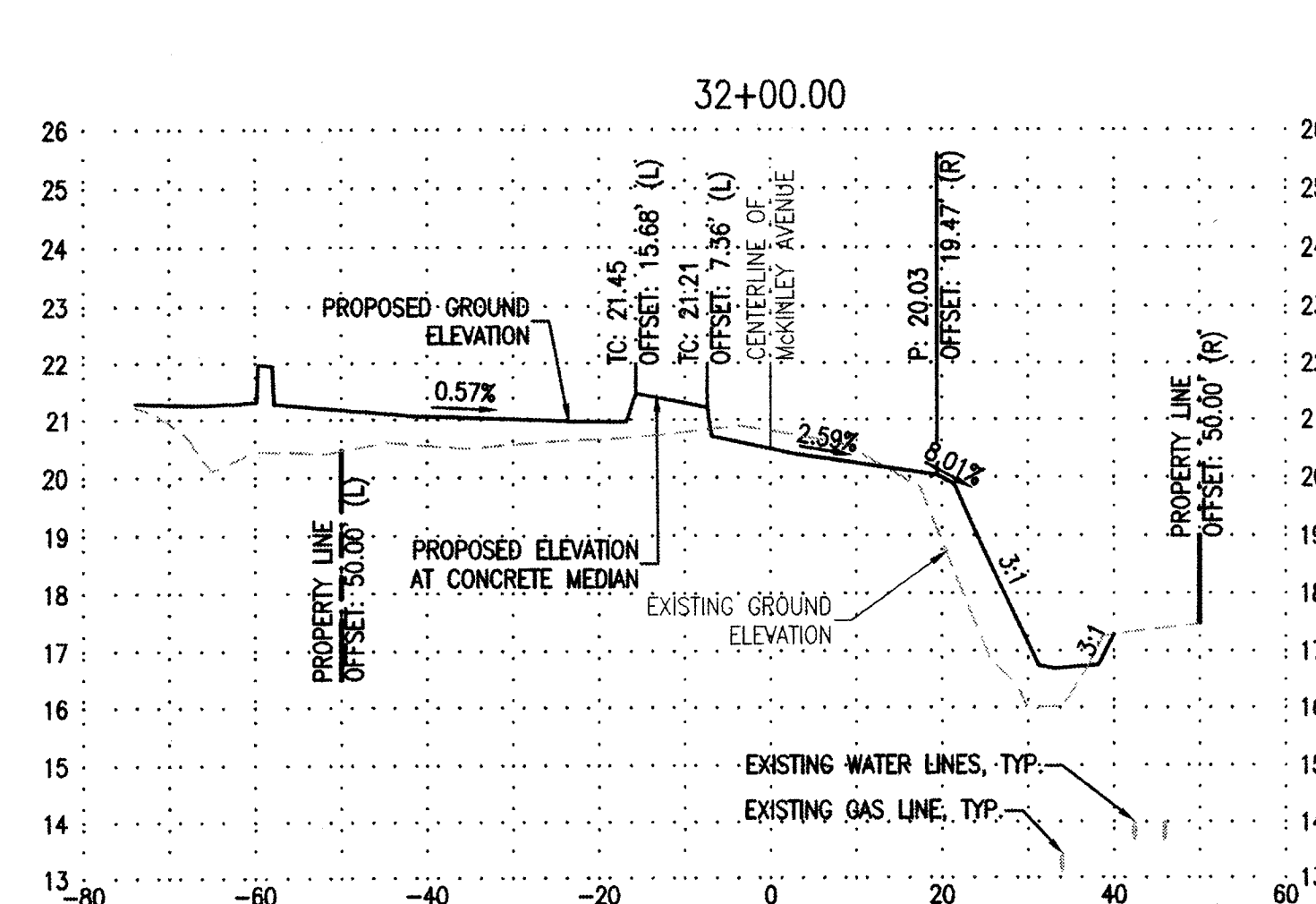
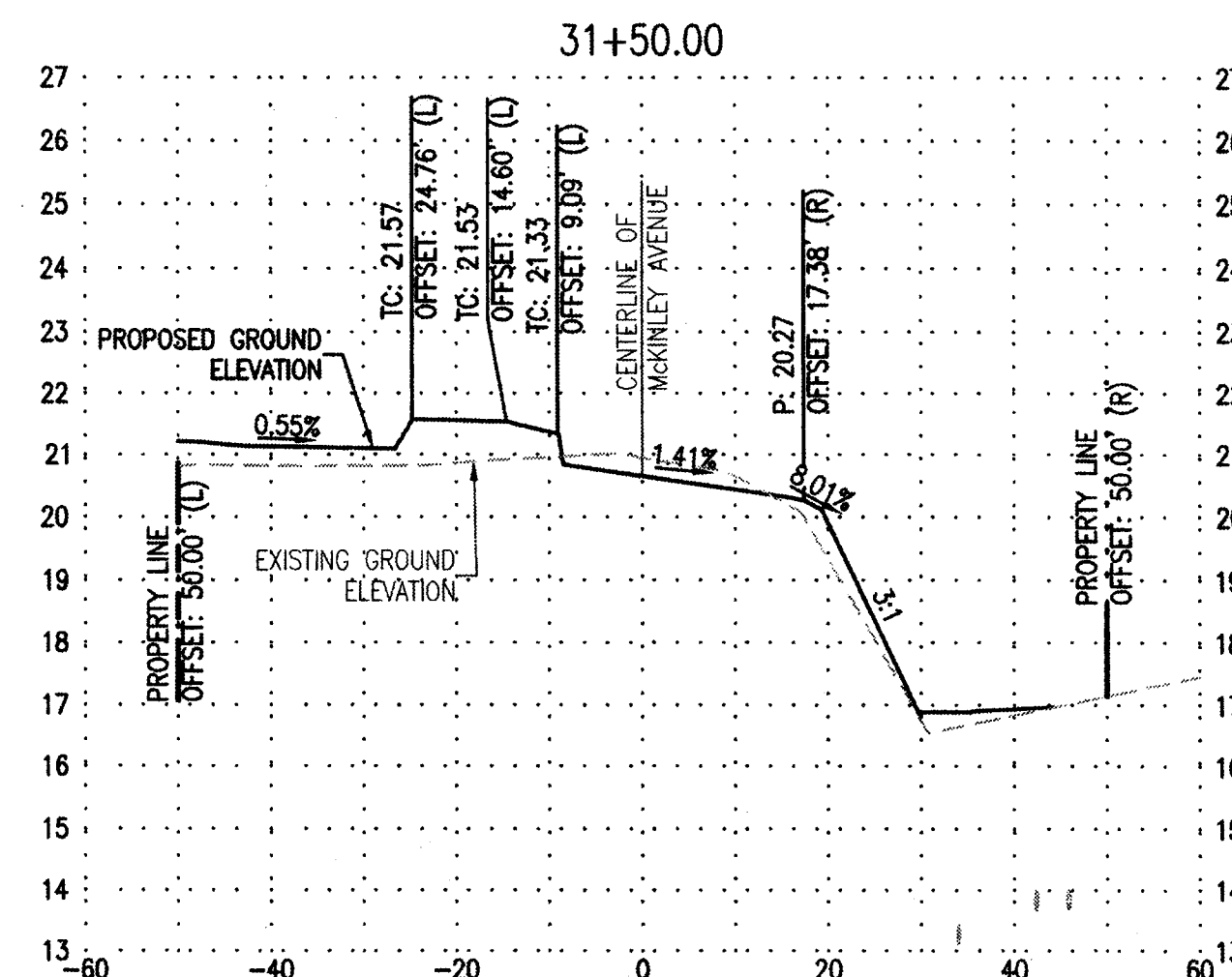
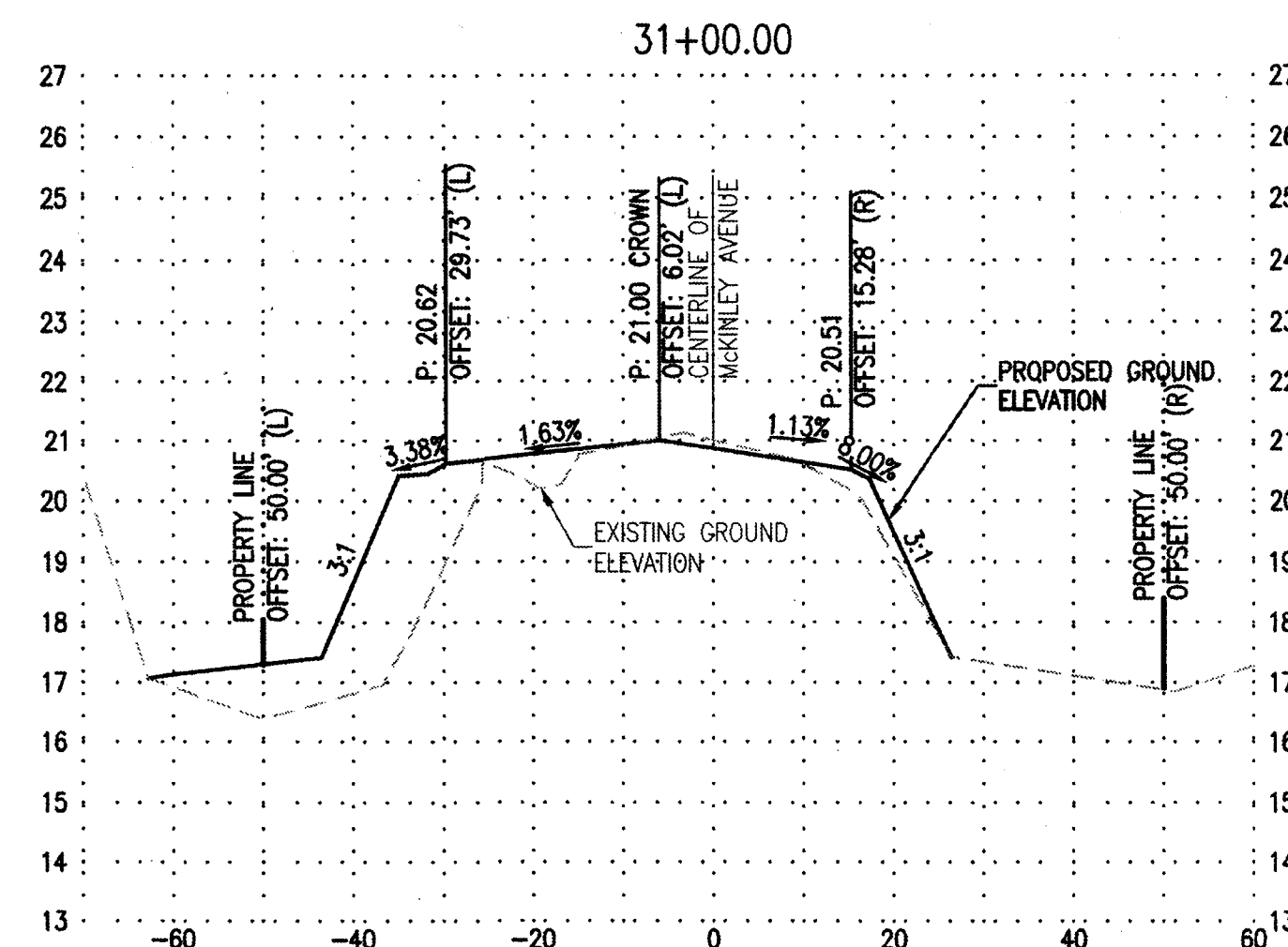
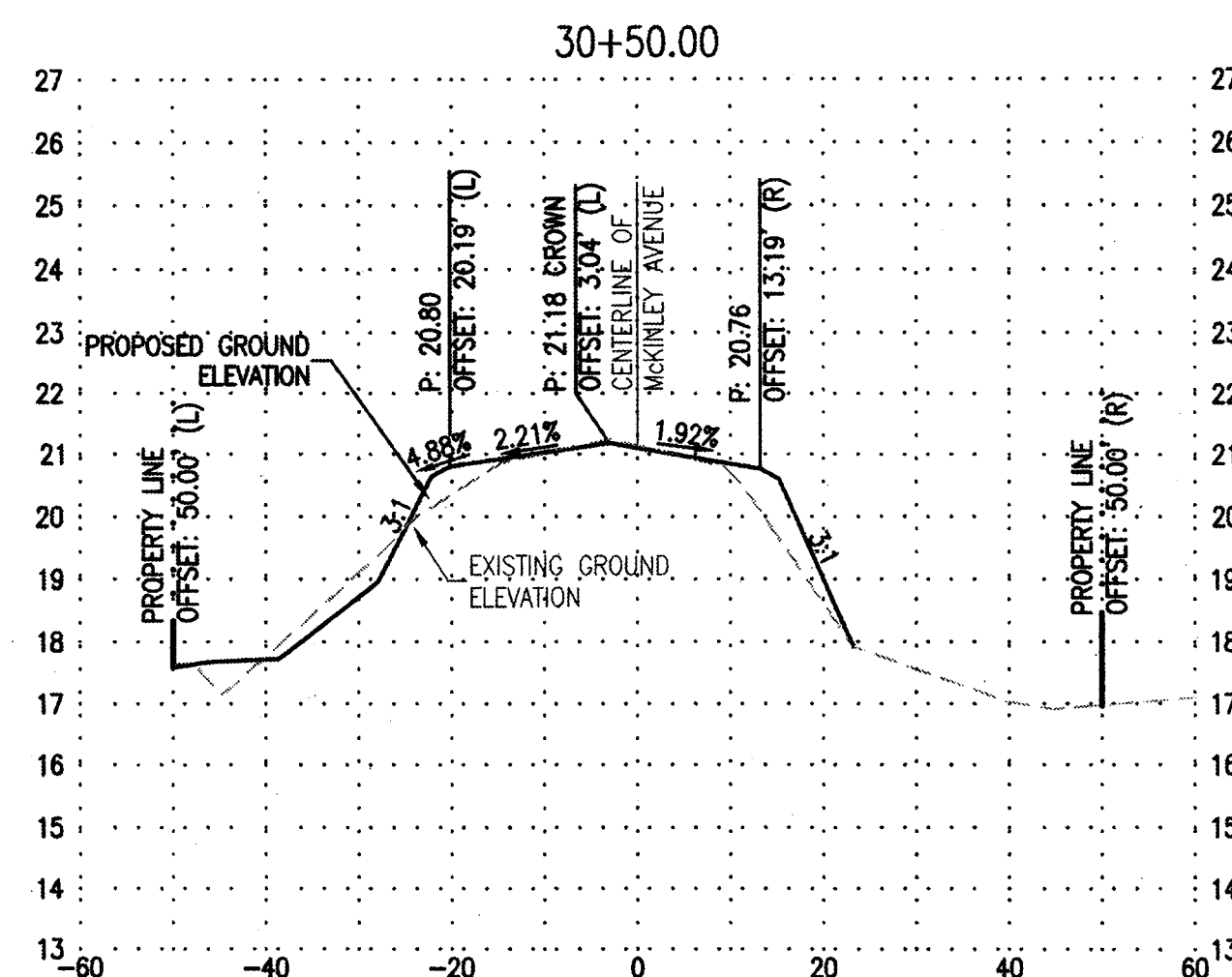
16	<p>Stockton, California</p> <p>Oakland Subdivision MP 90.37</p> <p>Industrial Drive/McKinley Avenue and UPRR Crossing Safety Improvements</p>
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SHEET TITLE: **TYPICAL CROSS SECTIONS AND DETAILS**

Office of Assistant Vice President
Engineering Design/Construction

TYPICAL CROSS SECTIONS AND DETAILS

5261.9C



BENCHMARK:
CITY OF STOCKTON BENCHMARK NO. 119

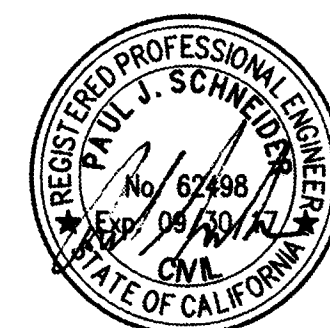
BRASS DISK MARKING C.O.S. MONUMENT STAMPED "3S-2" IN MONUMENT WELL ON THE WEST SIDE OF MCKINLEY AVENUE AT THE APPROXIMATE CENTERLINE OF INDUSTRIAL DRIVE, EAST OF THE WESTERN PACIFIC R.R. R/W, EXTENDED WESTERLY.

ELEVATION = 20.50

DATUM = NAVD 88 (2008 REVISION, CITY OF STOCKTON)

MCKINLEY AVENUE

HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 3'



DATE SIGNED: 07/12/16



3244 Brookside Road, Suite 100
Stockton, California 95219

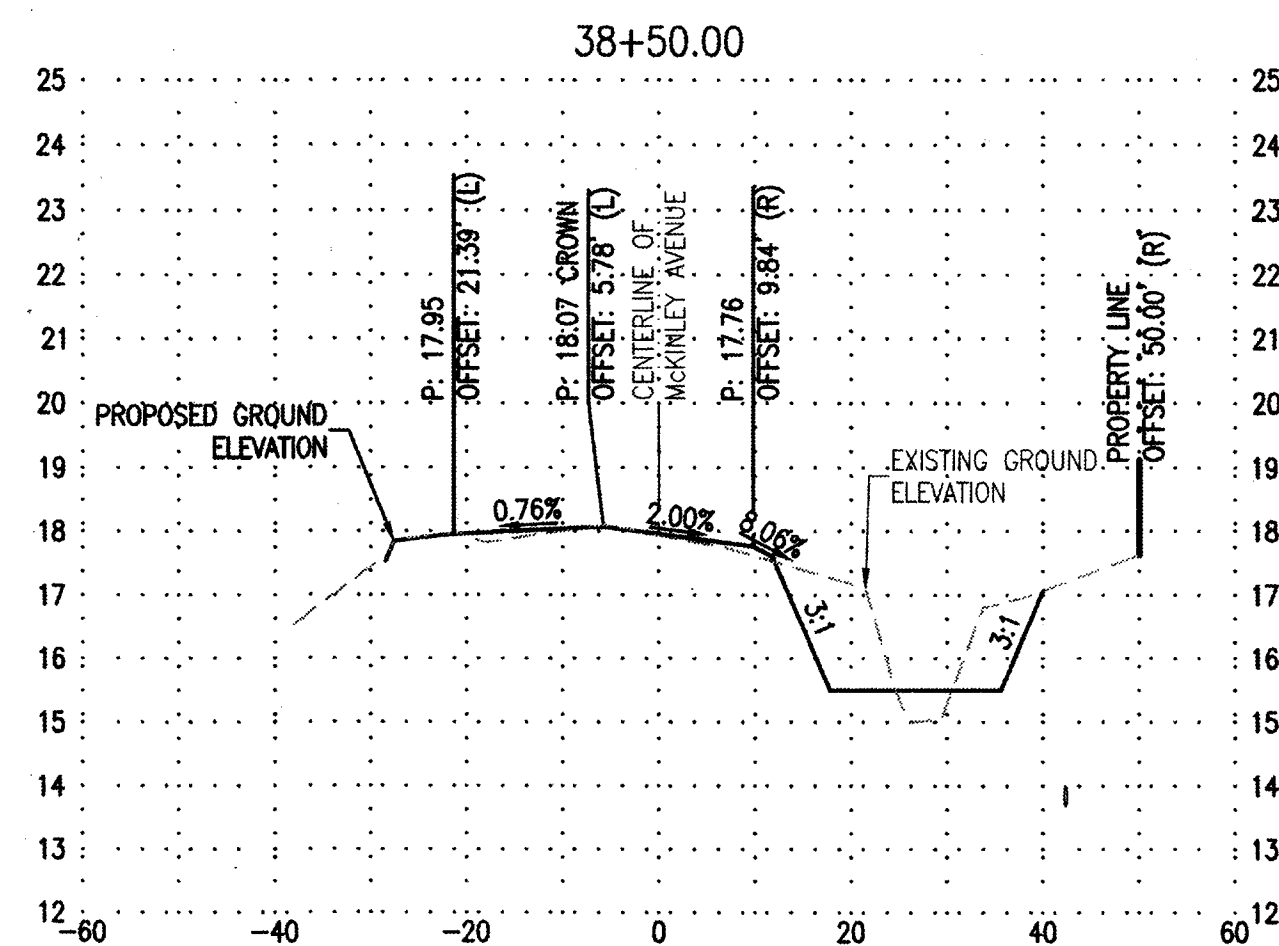
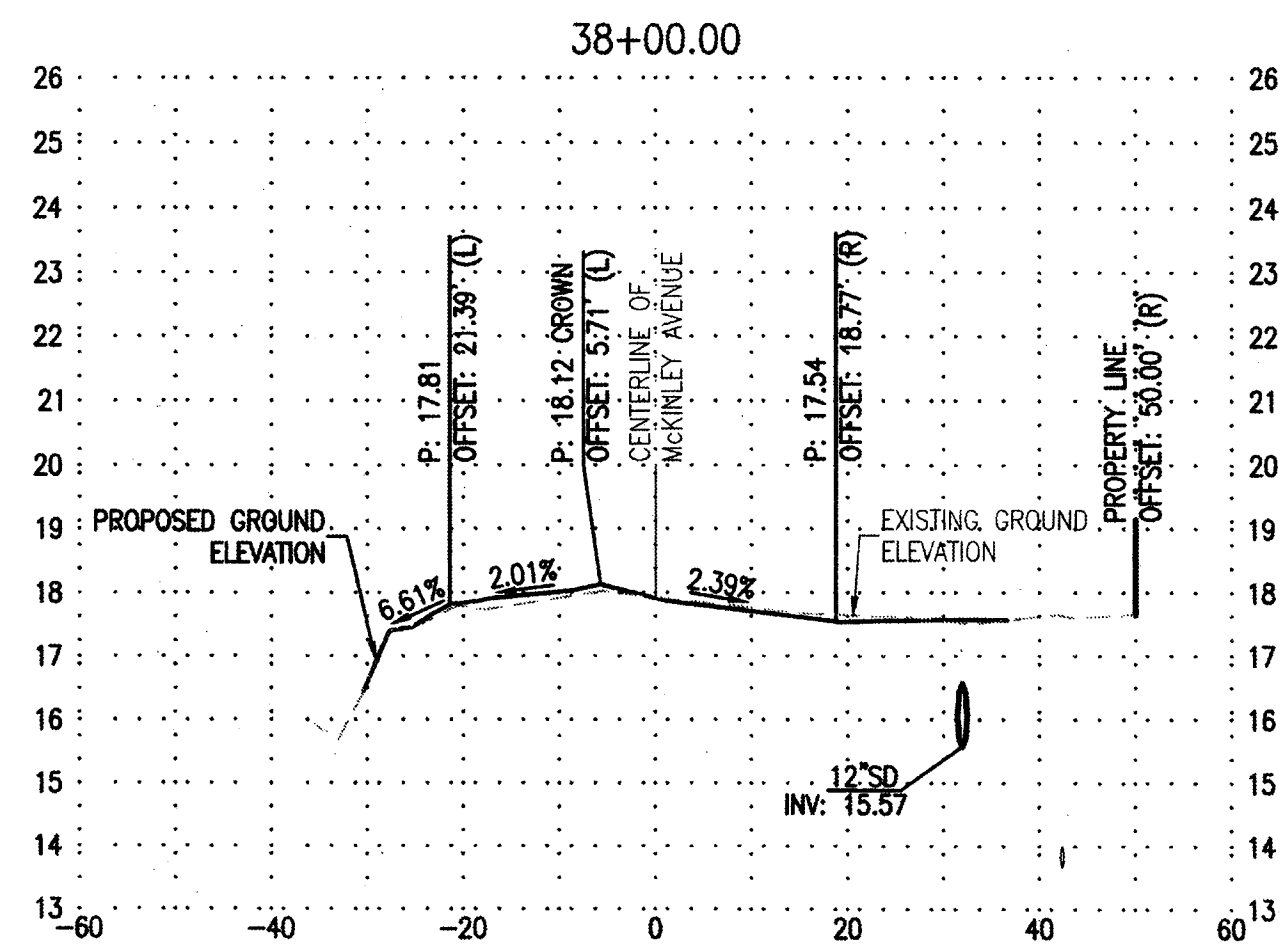
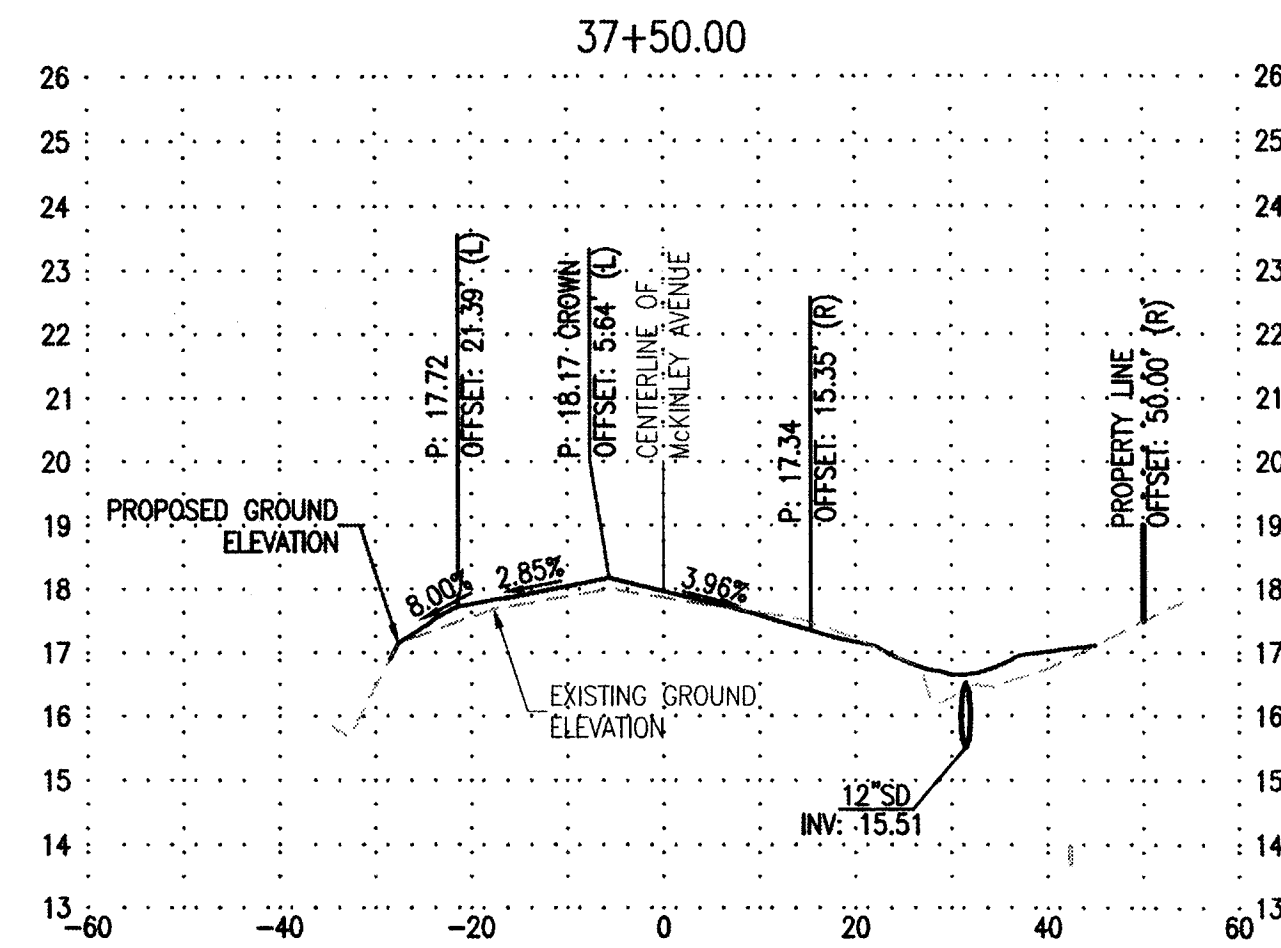
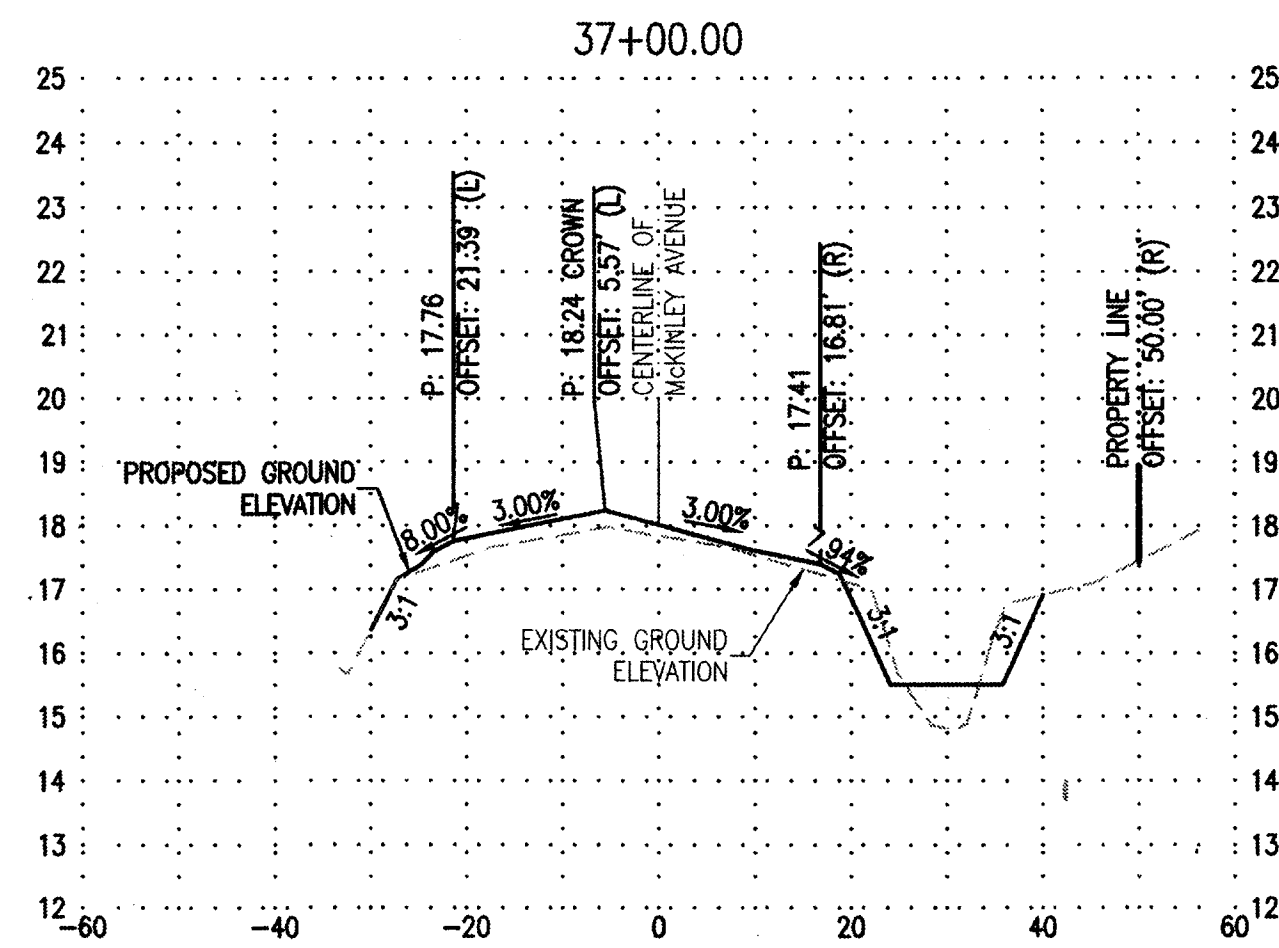
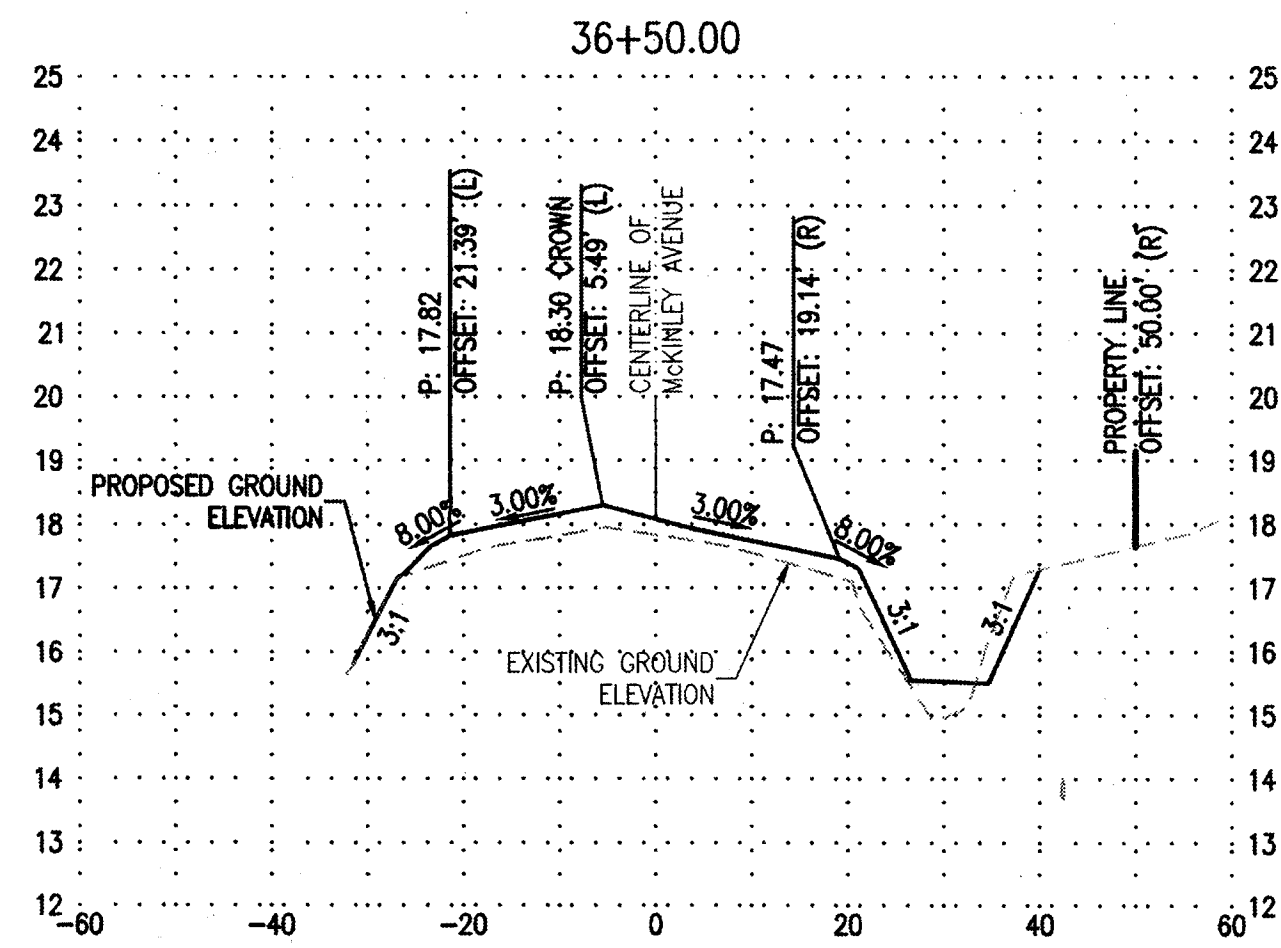


DRAWN BY: MDE
CHECKED BY: PJS
DATE: 07/12/2016
SHEET NUMBER: X001

UNION PACIFIC RAILROAD
LOCATION & DESCRIPTION:
Stockton, California
Oakland Subdivision MP 90.37
Industrial Drive/McKinley Avenue and UPRR Crossing Safety Improvements

Office of Assistant Vice President
Engineering Design/Construction
SHEET TITLE: **SECTIONS I**

5261.10C

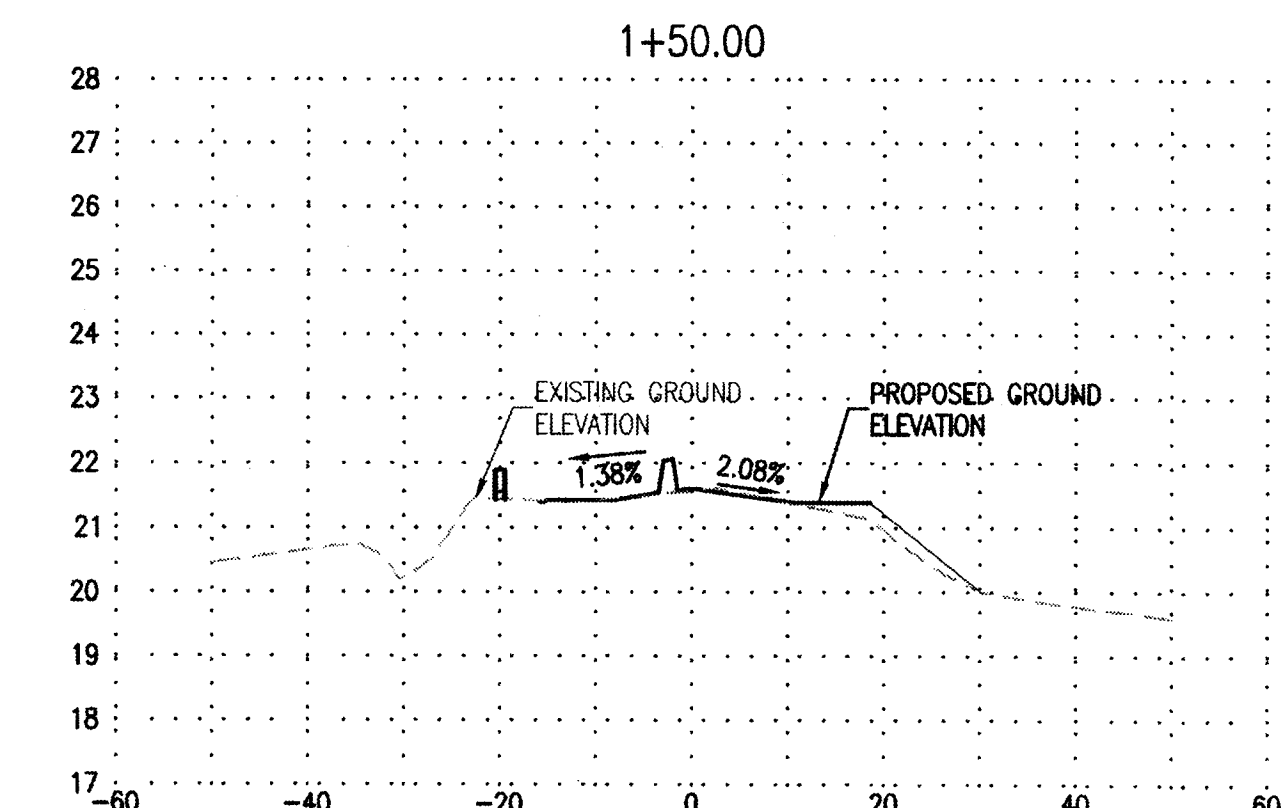
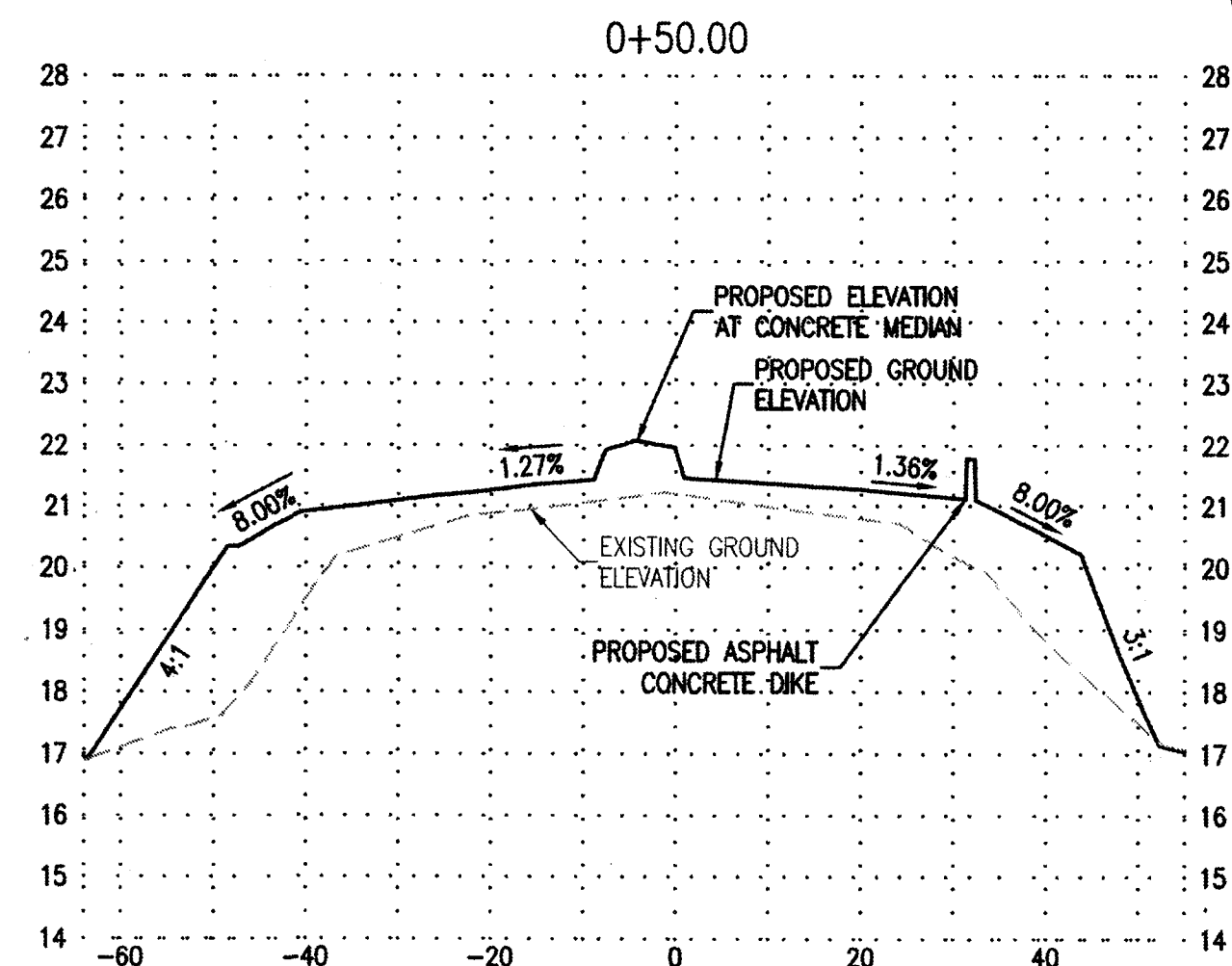


CUT & FILL VOLUMES					
STA.	CUT AREA (Sq. Ft)	FILL AREA (Sq. Ft)	CUT VOLUME (CY)	FILL VOLUME (CY)	CUMULATIVE VOLUME
30+50.00	5.91	12.26	5.47	11.35	5.88
31+00.00	1.27	56.43	2.35	104.50	108.03
31+50.00	5.24	25.95	9.70	48.06	146.38
32+00.00	5.78	60.41	10.70	111.87	247.55
32+50.00	7.42	45.21	13.74	83.72	317.53
33+00.00	5.78	90.80	10.70	168.15	474.97
33+50.00	0.53	49.90	0.98	92.41	566.40
34+00.00	7.55	43.89	13.98	81.28	633.69
34+50.00	2.18	29.78	4.04	55.15	684.81
35+00.00	1.15	14.74	2.13	27.30	709.97
35+50.00	1.27	22.82	2.35	42.26	749.88
36+00.00	3.00	23.17	5.56	42.91	787.23
36+50.00	4.35	17.47	8.06	32.35	811.53
37+00.00	7.09	12.22	13.13	22.63	821.03
37+50.00	1.01	9.46	1.87	17.52	836.68
38+00.00	3.55	2.47	6.57	4.57	834.68
38+50.00	21.39	4.19	19.81	3.88	818.75

- NOTE:
1. THE NUMBER OF 818.75 CY FILL IS EXISTING GROUND TO FINISH GROUND VOLUMES ONLY, AND DOES NOT INCLUDE CUT FOR ROADWAY STRUCTURAL SECTION.
 2. EXISTING ROADWAY STRUCTURAL SECTION IS 929.4 CY. (AN ADDITIONAL EXCAVATION OF 1,372 CY. IS REQUIRED IF 26" STRUCTURAL SECTION IS SELECTED).
 3. AN ADDITIONAL 820 CY CUT IS REQUIRED FOR WIDENING MCKINLEY AVENUE (IF 26" SECTION SELECTED).
 4. NET VOLUME IS +818.75 CY FILL - 1,372 CY CUT - 820 CY CUT = 1,373.25 CY CUT.
 5. CUT AND FILL WILL BE DEPENDENT UPON THE STRUCTURAL SECTION SELECTED BY THE CONTRACTOR.

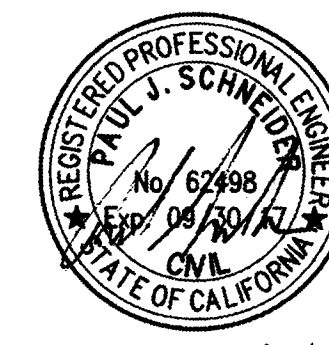
MCKINLEY AVENUE

HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 3'



INDUSTRIAL DRIVE

HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 3'



DRAWN BY: MDE	UNION PACIFIC RAILROAD Office of Assistant Vice President Engineering Design/Construction Stockton, California Oakland Subdivision MP 90.37 Industrial Drive/McKinley Avenue and UPRR Crossing Safety Improvements
CHECKED BY: PJS	
DATE: 07/12/2016	
SHEET NUMBER X002	

SECTIONS II

5261.11C



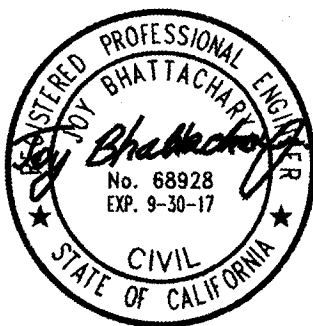
BENCHMARK:
CITY OF STOCKTON BENCHMARK NO. 119
BRASS DISK MARKING C.O.S. MONUMENT STAMPED "35-2" IN MONUMENT WELL ON THE WEST SIDE OF MCKINLEY AVENUE AT THE APPROXIMATE CENTERLINE OF INDUSTRIAL DRIVE, EAST OF THE WESTERN PACIFIC R.R. R/W, EXTENDED WESTERLY.
ELEVATION = 20.50
DATUM = NAVD 88 (2008 REVISION, CITY OF STOCKTON)

GENERAL NOTES

- 1. THESE PLANS ARE HEREBY MADE PART OF THE CONTRACT SPECIFICATIONS FOR THIS PROJECT.
- 2. ALL WORK AND MATERIAL EMBRACED IN THIS PROJECT SHALL BE DONE IN ACCORDANCE WITH APPLICABLE PROVISIONS OF THE SAN JOAQUIN COUNTY, THE CITY OF STOCKTON, DEPT. OF PUBLIC WORKS, STANDARD SPECIFICATIONS AND PLANS, THE LATEST EDITIONS OF CALTRANS STANDARD PLANS AND SPECIFICATIONS, THE LATEST EDITION OF THE CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND IN ACCORDANCE WITH THE SPECIAL PROVISIONS OF THIS PROJECT.
- 3. ADDITIONAL NOTES CAN BE FOUND ON SHEET G002, GENERAL NOTES AND SPECIFICATIONS.
- 4. POLES, PULL BOXES, DETECTOR HAND HOLES, INDUCTIVE LOOPS AND CONTROLLER CABINET LOCATIONS SHALL BE LOCATED IN THE FIELD BY THE ENGINEER WITH THE APPROVAL OF THE CITY TRAFFIC ENGINEER. TYPICALLY, DETECTOR HAND HOLES SHOULD BE INSTALLED ON LANE LINES.
- 5. CONTRACTOR SHALL RETURN EXISTING & SALVAGEABLE EQUIPMENT AND SIGNS IN CITY RIGHT OF WAY TO THE CITY OF STOCKTON CORPORATION YARD AT 1465 SOUTH LINCOLN STREET, STOCKTON, CALIFORNIA, 95206. CONTRACTOR SHALL NOTIFY CITY'S OPERATION AND MAINTENANCE AT (209)-937-8341 A MINIMUM OF 3 WORKING DAYS IN ADVANCE OF DELIVERY.
- 5. CONTRACTOR SHALL RETURN EXISTING & SALVAGEABLE EQUIPMENT AND SIGNS IN COUNTY RIGHT OF WAY TO THE SAN JOAQUIN COUNTY MAINTENANCE YARD ON 1810 E HAZELTON AVENUE, STOCKTON, CALIFORNIA, 95205. CONTRACTOR SHALL NOTIFY COUNTY'S MAINTENANCE AT (209)-468-3000 A MINIMUM OF 3 WORKING DAYS IN ADVANCE OF DELIVERY.
- 6. CONTRACTOR SHALL BACKFILL WITH CUTBACK EACH NIGHT ANY AREAS NOT COMPLETED TO IT'S FINISHED STATE. ALL EXCAVATED AREAS SHALL BE PROTECTED FROM PEDESTRIAN AND VEHICULAR TRAFFIC AT ALL TIMES.
- 7. ALL PULL BOXES SHALL BE STATE STANDARD NUMBER 5 UNLESS OTHERWISE NOTED ON PLAN.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY P.G.&E. AND OTHER UTILITY COMPANIES (COMCAST, CAL WATER, AT&T, SUNESYS, VERIZON, KINDER MORGAN, SPRINT) PRIOR TO START OF WORK. THE CONTRACTOR SHALL CALL U.S.A. (800-227-2600) 2-WORKING DAYS PRIOR TO ANY EXCAVATION.
- 9. CONDUITS RUNNING FROM PULL BOX TO HAND HOLE AND HAND HOLE TO HAND HOLE SHALL BE A MINIMUM 2" DIA. UNLESS OTHERWISE NOTED.
- 10. FLASHING INDICATIONS SHALL FLASH IN RED ON ALL PHASES.
- 11. CONTRACTOR SHALL, BY HAND, POTHOLE EXISTING UTILITIES TO VERIFY LOCATION PRIOR TO CONSTRUCTION.
- 12. CONDUIT ROUTING SHOWN IS ESSENTIALLY DIAGRAMMATIC. CONTRACTOR SHALL LAYOUT RUNS TO SUIT FIELD CONDITIONS AND THE COORDINATION REQUIREMENTS OF UTILITIES OR ANY OTHER TRADES, AND TO THE SATISFACTION OF THE CITY OF STOCKTON. UPON COMPLETION OF CONDUIT INSTALLATION, THE ACTUAL LOCATION OF THE CONDUITS SHALL BE NOTED ON AN AS-BUILT SET OF PRINTS AND FURNISHED TO THE CITY.
- 13. ALL VEHICLE INDICATIONS SHALL BE 12 INCH. ALL SIGNAL HEADS SHALL HAVE VENTILATED BACK PLATES.
- 14. THE CONTRACTOR SHALL NOTIFY CITY OF STOCKTON OPERATION AND MAINTENANCE AT (209)-937-8341 A MINIMUM OF 3 WORKING DAYS IN ADVANCE OF THE LAY OUT AND CUTTING OF TRAFFIC SIGNAL LOOPS.
- 15. THE CONTRACTOR SHALL MARK LOOP LOCATIONS, LOOP WIRE RUNS AND DETECTOR HAND HOLES AND HAVE LOCATIONS APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- 16. ALL EVP DETECTORS SHALL BE INSTALLED AS SHOWN ON PLAN. SEE EVP MOUNTING DETAIL ON SHEET CD-1.
- 17. CONTRACTOR TO REPLACE ALL DAMAGED ITEMS DURING CONSTRUCTION.

LEGEND

SEE CALTRANS STANDARD PLANS A10C, ES-1A, AND ES-1B FOR SYMBOLS AND ABBREVIATIONS. ALL SYMBOLS ARE STANDARD CALTRANS SYMBOLS, UNLESS NOTED ON THE PLAN SHEET.



Stantec

Stantec Consulting Inc.
1340 Treat Blvd. Suite 300
Walnut Creek, CA 94597
Tel. (925)941-1400
Fax. (925)941-1401

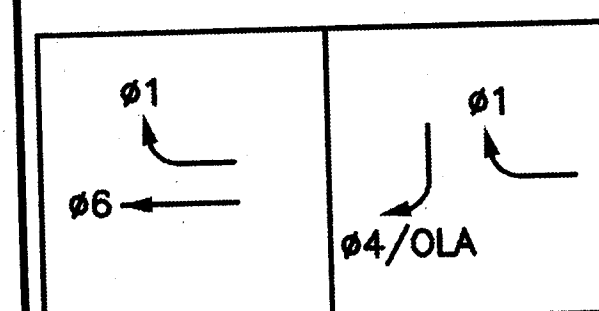


DRAWN BY:	AH
CHECKED BY:	JB
DATE:	05/06/2016
SHEET NUMBER	GN-1

UNION PACIFIC RAILROAD	Office of Assistant Vice President Engineering Design/Construction
LOCATION & DESCRIPTION:	
Stockton, California Oakland Subdivision MP 90.37 Industrial Drive/McKinley Avenue and UPRR Crossing Safety Improvements	
SHEET TITLE:	TRAFFIC SIGNAL NOTES

5261.12c

PROPOSED PHASE DIAGRAM

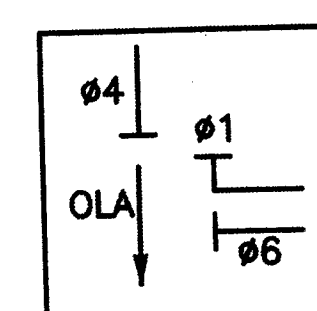


STEADY DEMAND SEQUENCE

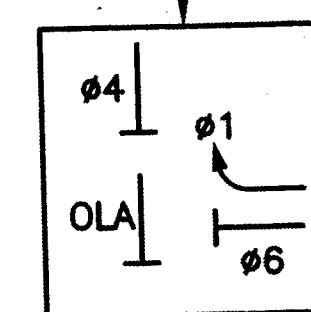
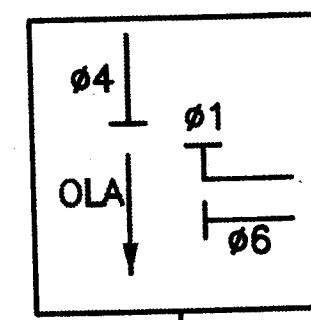
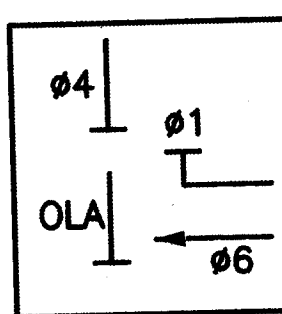
EMERGENCY VEHICLE PREEMPT (EVP)

CHANNEL B = 04
CHANNEL C = 06 + 01

TRACK CLEARANCE



TRACK DWELL



RAILROAD PREEMPT

QUEUE CUTTER PREEMPT

SIGNAL STANDARD PLACEMENT DIMENSIONS PER CALTRANS STANDARD ES-4C

POLE LOCATION	"A" DIMENSION	"B" DIMENSION
(A)	0.00	4.50'
(B)	-33.25'	14.00'
(C)	-4.00'	4.25'
(D)	-64.50'	6.50'
(E)	-105.00'	3.00'
(F)	88.00'	5.00'
(G)	44.50'	3.00'
(H)	79.50'	3.00'

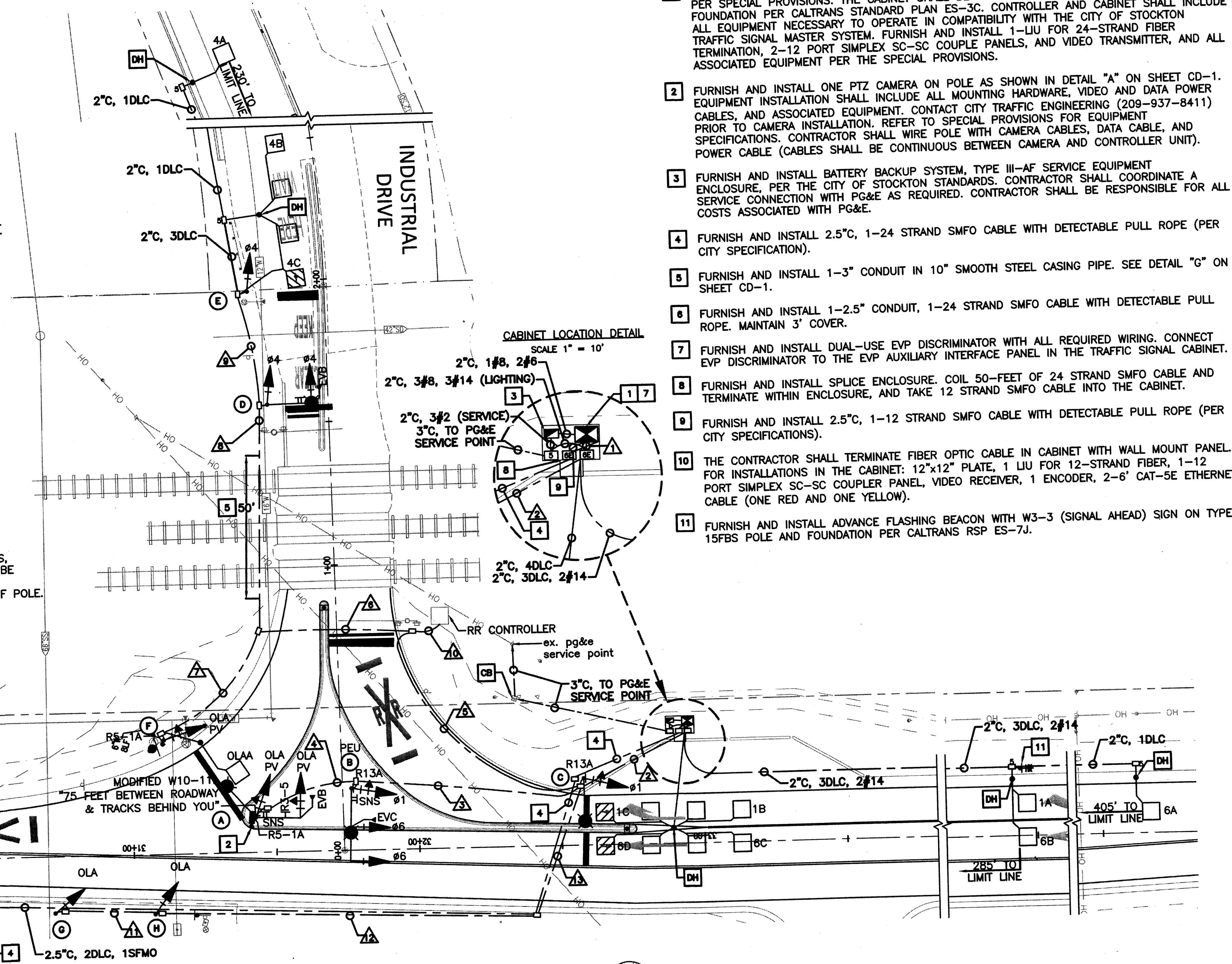
NOTE:

1. POSITION OF SIGNAL STANDARDS, PULL BOXES, DETECTORS, AND CABINET EQUIPMENT SHALL BE FIELD VERIFIED BY THE ENGINEER PRIOR TO INSTALLATION. DIMENSIONS ARE TO CENTER OF POLE.
2. SEE SHEET CD-1 FOR STANDARD LAYOUT.

SENSOR TABLE

CHANNEL	DETECTOR	LOOP DETECTORS	# OF LOOPS	NOTE
1	1	1A	1	ADVANCE
2	1	OLA	1	CALL
3	1	NOT USED	1	
4	1	4A	1	ADVANCE
5	2	NOT USED	1	
6	2	6A	1	ADVANCE
7	2	4B	3	CALL
8	2	NOT USED	1	
9	3	1B	3	CALL
10	3	1C	1	BIKE
11	3	4C	1	BIKE
12	3	4D	1	QUEUE
13	4	6B	1	ADVANCE
14	4	6C	3	CALL
15	4	6D	1	BIKE
16	4	6E	1	QUEUE

NOTES:
() = LOOPS PER SENSOR.
SEE DETAILS "DETECTOR INSTALLATION" AND "DETECTOR PLACEMENT" ON SHEET CD-1.



PROJECT NOTES (SHEET TS-1 & TS-2 ONLY):

1. FURNISH AND INSTALL M60 SERIES CONTROLLER, TYPE "P" CABINET, AND AUXILIARY EQUIPMENT PER SPECIAL PROVISIONS. THE CABINET SHALL BE CONSTRUCTED ON AN 18 INCH RAISED FOUNDATION PER CALTRANS STANDARD PLAN ES-3C. CONTROLLER AND CABINET SHALL INCLUDE ALL EQUIPMENT NECESSARY TO OPERATE IN COMPATIBILITY WITH THE CITY OF STOCKTON TRAFFIC SIGNAL MASTER SYSTEM. FURNISH AND INSTALL 1-LIU FOR 24-STRAND FIBER TERMINATION, 2-12 PORT SIMPLEX SC-SC COUPLE PANELS, AND VIDEO TRANSMITTER, AND ALL ASSOCIATED EQUIPMENT PER THE SPECIAL PROVISIONS.
2. FURNISH AND INSTALL ONE PTZ CAMERA ON POLE AS SHOWN IN DETAIL "A" ON SHEET CD-1. EQUIPMENT INSTALLATION SHALL INCLUDE ALL MOUNTING HARDWARE, VIDEO AND DATA POWER CABLES, AND ASSOCIATED EQUIPMENT. CONTACT CITY TRAFFIC ENGINEERING (209-937-8411) PRIOR TO CAMERA INSTALLATION. REFER TO SPECIAL PROVISIONS FOR EQUIPMENT SPECIFICATIONS. CONTRACTOR SHALL WIRE POLE WITH CAMERA CABLES, DATA CABLE, AND POWER CABLE (CABLES SHALL BE CONTINUOUS BETWEEN CAMERA AND CONTROLLER UNIT).
3. FURNISH AND INSTALL BATTERY BACKUP SYSTEM, TYPE III-AF SERVICE EQUIPMENT ENCLOSURE, PER THE CITY OF STOCKTON STANDARDS. CONTRACTOR SHALL COORDINATE A SERVICE CONNECTION WITH PG&E AS REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH PG&E.
4. FURNISH AND INSTALL 2.5"C, 1-24 STRAND SMFO CABLE WITH DETECTABLE PULL ROPE (PER CITY SPECIFICATION).
5. FURNISH AND INSTALL 1-3" CONDUIT IN 10" SMOOTH STEEL CASING PIPE. SEE DETAIL "G" ON SHEET CD-1.
6. FURNISH AND INSTALL 1-2.5" CONDUIT, 1-24 STRAND SMFO CABLE WITH DETECTABLE PULL ROPE. MAINTAIN 3' COVER.
7. FURNISH AND INSTALL DUAL-USE EVP DISCRIMINATOR WITH ALL REQUIRED WIRING. CONNECT EVP DISCRIMINATOR TO THE EVP AUXILIARY INTERFACE PANEL IN THE TRAFFIC SIGNAL CABINET.
8. FURNISH AND INSTALL SPLICE ENCLOSURE. COIL 50-FOOT OF 24 STRAND SMFO CABLE AND TERMINATE WITHIN ENCLOSURE, AND TAKE 12 STRAND SMFO CABLE INTO THE CABINET.
9. FURNISH AND INSTALL 2.5"C, 1-12 STRAND SMFO CABLE WITH DETECTABLE PULL ROPE (PER CITY SPECIFICATIONS).
10. THE CONTRACTOR SHALL TERMINATE FIBER OPTIC CABLE IN CABINET WITH WALL MOUNT PANEL FOR INSTALLATIONS IN THE CABINET: 12"x12" PLATE, 1 LIU FOR 12-STRAND FIBER, 1-12 PORT SIMPLEX SC-SC COUPLER PANEL, VIDEO RECEIVER, 1 ENCODER, 2-6' CAT-5E ETHERNET CABLE (ONE RED AND ONE YELLOW).
11. FURNISH AND INSTALL ADVANCE FLASHING BEACON WITH W3-3 (SIGNAL AHEAD) SIGN ON TYPE 15FBS POLE AND FOUNDATION PER CALTRANS RSP ES-7J.

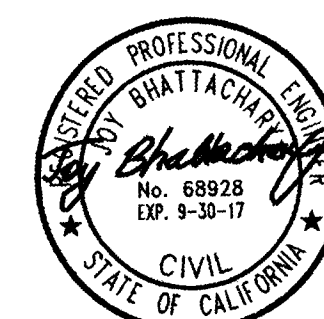
MATCHLINE A-A SEE SHEET TS-2

PROJECT NOTES (SHEET TS-1 & TS-2 ONLY):

1. SEE SHEET GN-1 FOR TRAFFIC SIGNAL NOTES.
2. SEE SHEET TS-3 FOR CONDUCTOR & EQUIPMENT SCHEDULE.
3. SEE SHEET SS-1 FOR SIGNING AND STRIPING.
4. FIBER OPTIC CONDUITS SHALL HAVE RED CDF COVER WITH ORANGE TAPE.
5. ALL PULL BOXES WITHIN DIRT AREAS SHALL HAVE A CONCRETE CAP.
6. ALL PULL BOXES SHALL BE NO. 5, UNLESS OTHERWISE NOTED.
7. CONDUITS AND CONDUCTORS CROSSING THE TRACKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH UNION PACIFIC CROSSING GUIDELINES.

NOTES (SHEET TS-1 & TS-2 ONLY):

1. SEE SHEET GN-1 FOR TRAFFIC SIGNAL NOTES.
2. SEE SHEET TS-3 FOR CONDUCTOR & EQUIPMENT SCHEDULE.
3. SEE SHEET SS-1 FOR SIGNING AND STRIPING.
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Stantec Consulting Inc.
1340 Treat Blvd. Suite 300
Walnut Creek, CA 94597
Tel. (925)941-1400
Fax. (925)941-1401



DRAWN BY: AH
CHECKED BY: JB
DATE: 05/06/2016
SHEET NUMBER: TS-1

UNION PACIFIC RAILROAD
LOCATION & DESCRIPTION:
Stockton, California
Oakland Subdivision MP 90.37
Industrial Drive/McKinley Avenue and UPRR Crossing Safety Improvements

SHEET TITLE: TRAFFIC SIGNAL PLAN 1

5261.13C

CONDUCTOR TABLE														
AWG	CIRCUIT	RUNS												
		1	2	3	4	5	6	7	8	9	10	11	12	13
No. 14	Ø1 SIGNAL	3	3											
	Ø4 SIGNAL	3	3			3	3		3	3				
	Ø6 SIGNAL	3	3	3		3	3		3					
	ØOLA SIGNAL	6	6	3	3	3	3	3				3	3	3
	PEU		3	3										
	SPARE	6	6	3	3	6	6	3	3	3		3	3	3
	FLASHING BEACON	2												
	TOTAL No.14	23	24	12	6	12	12	6	6	6		6	6	6
No. 8	SIGNAL COMMON		1	1	1	1	1		1					
	LUMINAIRE		2	2	2	2	2		2					
	TOTAL No.8		3	3	3	3	3		3					
No. 6	SIGNAL													
No. 2	SERVICE													
DLC														
	Ø1	3												
	Ø4	4	4			3	3		3	3				1
	Ø6	5	1			3	3		3					1
	OLA	1	1			1	1	1						
	TOTAL DLC	13	6			7	7		6	3				2
EVP														
	EVB	1	1	1	1	1	1	1	1					
	EVC	1	1	1										
	TOTAL CABLES	2	2	2	1	1	1	1	1					
CCTV	POWER	1	1	1										
	VIDEO/DATA	1	1	1										
	TOTAL CABLES	2	2	2										
RR CONTROL	12-#14 CABLE	1	1			1					1			
CONDUIT SIZE (INCHES)		2-4"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"
CONDUIT FILL		%	%	%	%	%	%	%	%	%	%			

ALL CONDUCTORS ARE NEW UNLESS OTHERWISE NOTED.

EQUIPMENT SCHEDULE											
POLE			MAST ARM		LUMINAIRE	SIGNAL MOUNTING					REMARKS
LOC	TYPE	HGT	SIG	LUM		PHASE	SECTION	VEHICLE	PED	PPB	
(A)	19-4-100	30'	15'	15'	87W LED	ØOLA ØOLA	12"A 12"A	MAS SV-1-T			FURNISH AND INSTALL EVP AT THE END OF THE MAST ARM. SEE DETAIL ON SHEET CD-1. LUMINAIRE MAST ARM SKEW 135'. FURNISH AND INSTALL PTZ CAMERA ON LUMINAIRE MAST ARM. SEE DETAIL ON SHEET CD-1. FURNISH AND INSTALL STREET NAME SIGN (SNS) AND R3-5 SIGN ON SIGNAL MAST ARM. FURNISH AND INSTALL R5-1A SIGN ON SIGNAL POLE. FURNISH AND INSTALL MODIFIED W10-11 "75 FEET BETWEEN ROADWAY & TRACKS BEHIND YOU" SIGN ON SIGNAL POLE
(B)	19-4-100	30'	25'	15'	87W LED	Ø6 Ø6 Ø1	12"A 12" 12"A	MAS MAS SV-1-T			FURNISH AND INSTALL EVP BELOW VEHICLE SIGNAL HEAD. SEE DETAIL ON SHEET CD-1. FURNISH AND INSTALL STREET NAME SIGN (SNS) ON SIGNAL MAST ARM. FURNISH AND INSTALL R13A SIGN ON SIGNAL POLE.
(C)	TYPE 15TS	30'		15'	87W LED	Ø1	12"A	SV-1-T			FURNISH AND INSTALL R13A SIGN ON SIGNAL POLE.
(D)	19-4-100	30'	15'	15'	87W LED	Ø4 Ø4	12" 12"	MAS SV-1-T			FURNISH AND INSTALL EVP AT THE END OF THE MAST ARM. SEE DETAIL ON SHEET CD-1.
(E)	1-B	10'				Ø4	12"	TV-1-T			
(F)	1-B	10'				ØOLA	12"A	TV-1-T			FURNISH AND INSTALL R5-1A SIGN ON SIGNAL POLE.
(G)	1-B	10'				ØOLA	12"A	TV-1-T			
(H)	1-B	10'				ØOLA	12"A	TV-1-T			

- A: INDICATES ALL 12" RIGHT ARROW HEAD

NOTES:

1. SEE SHEET GN-1 FOR GENERAL NOTES.
2. SEE SHEET TS-1 & TS-2 FOR TRAFFIC SIGNAL PLANS.
3. SEE SHEET CD-1 FOR CONSTRUCTION DETAILS.



Stantec Consulting Inc.
1340 Treat Blvd. Suite 300
Walnut Creek, CA 94597
Tel. (925)941-1400
Fax. (925)941-1401



DRAWN BY:
AH
CHECKED BY:
JB
DATE:
05/06/2016
SHEET NUMBER
TS-3

UNION PACIFIC RAILROAD

LOCATION & DESCRIPTION:

Stockton, California
Oakland Subdivision MP 90.37
Industrial Drive/McKinley Avenue and UPRR Crossing Safety Improvements

SHEET TITLE: **TRAFFIC SIGNAL SCHEDULE**

Office of Assistant Vice President
Engineering Design/Construction

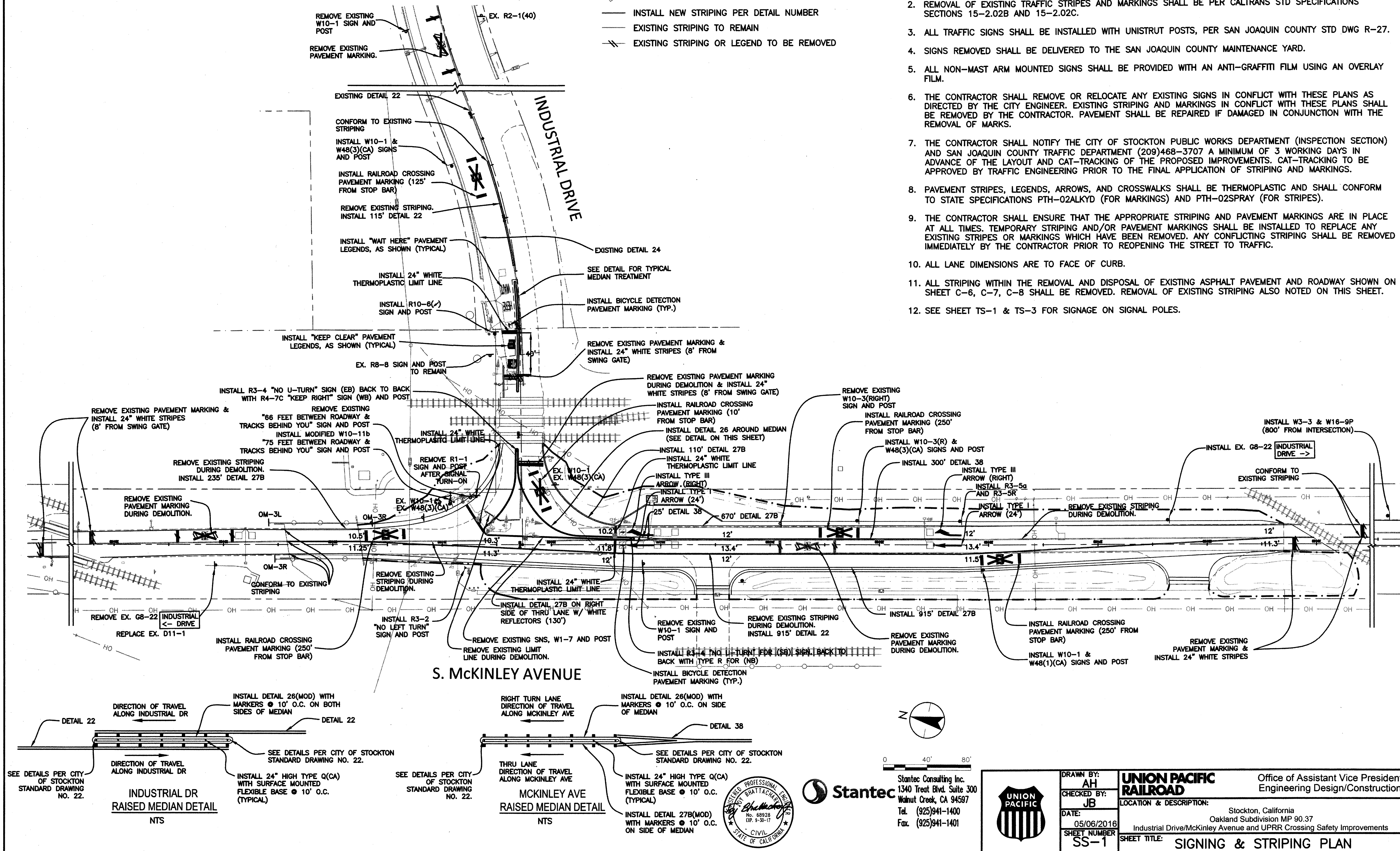
5261.15C

LEGEND

- INSTALL NEW SIGN AND POLE UNLESS OTHERWISE NOTED
- EXISTING SIGN TO REMAIN
- EXISTING PAVEMENT MARKING TO REMAIN
- INSTALL NEW STRIPING PER DETAIL NUMBER
- EXISTING STRIPING TO REMAIN
- EXISTING STRIPING OR LEGEND TO BE REMOVED

NOTES:

- SIGNING, STRIPING, AND PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH THE CALIFORNIA MANUAL OF TRAFFIC CONTROL DEVICES (CA MUTCD) 2014 EDITION AND THE LATEST VERSION OF THE CALTRANS STANDARD SPECIFICATIONS SECTION 84.
- REMOVAL OF EXISTING TRAFFIC STRIPES AND MARKINGS SHALL BE PER CALTRANS STD SPECIFICATIONS SECTIONS 15-2.02B AND 15-2.02C.
- ALL TRAFFIC SIGNS SHALL BE INSTALLED WITH UNISTRUT POSTS, PER SAN JOAQUIN COUNTY STD DWG R-27.
- SIGNS REMOVED SHALL BE DELIVERED TO THE SAN JOAQUIN COUNTY MAINTENANCE YARD.
- ALL NON-MAST ARM MOUNTED SIGNS SHALL BE PROVIDED WITH AN ANTI-GRAFFITI FILM USING AN OVERLAY FILM.
- THE CONTRACTOR SHALL REMOVE OR RELOCATE ANY EXISTING SIGNS IN CONFLICT WITH THESE PLANS AS DIRECTED BY THE CITY ENGINEER. EXISTING STRIPING AND MARKINGS IN CONFLICT WITH THESE PLANS SHALL BE REMOVED BY THE CONTRACTOR. PAVEMENT SHALL BE REPAIRED IF DAMAGED IN CONJUNCTION WITH THE REMOVAL OF MARKS.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF STOCKTON PUBLIC WORKS DEPARTMENT (INSPECTION SECTION) AND SAN JOAQUIN COUNTY TRAFFIC DEPARTMENT (209)468-3707 A MINIMUM OF 3 WORKING DAYS IN ADVANCE OF THE LAYOUT AND CAT-TRACKING OF THE PROPOSED IMPROVEMENTS. CAT-TRACKING TO BE APPROVED BY TRAFFIC ENGINEERING PRIOR TO THE FINAL APPLICATION OF STRIPING AND MARKINGS.
- PAVEMENT STRIPES, LEGENDS, ARROWS, AND CROSSWALKS SHALL BE THERMOPLASTIC AND SHALL CONFORM TO STATE SPECIFICATIONS PTH-02ALKYD (FOR MARKINGS) AND PTH-02SPRAY (FOR STRIPES).
- THE CONTRACTOR SHALL ENSURE THAT THE APPROPRIATE STRIPING AND PAVEMENT MARKINGS ARE IN PLACE AT ALL TIMES. TEMPORARY STRIPING AND/OR PAVEMENT MARKINGS SHALL BE INSTALLED TO REPLACE ANY EXISTING STRIPES OR MARKINGS WHICH HAVE BEEN REMOVED. ANY CONFLICTING STRIPING SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR PRIOR TO REOPENING THE STREET TO TRAFFIC.
- ALL LANE DIMENSIONS ARE TO FACE OF CURB.
- ALL STRIPING WITHIN THE REMOVAL AND DISPOSAL OF EXISTING ASPHALT PAVEMENT AND ROADWAY SHOWN ON SHEET C-6, C-7, C-8 SHALL BE REMOVED. REMOVAL OF EXISTING STRIPING ALSO NOTED ON THIS SHEET.
- SEE SHEET TS-1 & TS-3 FOR SIGNAGE ON SIGNAL POLES.



Stantec Consulting Inc.
1340 Treat Blvd. Suite 300
Walnut Creek, CA 94597
Tel. (925)941-1400
Fax. (925)941-1401



DRAWN BY:
AH
CHECKED BY:
JB
DATE:
05/06/2016
SHEET NUMBER
SS-1

UNION PACIFIC RAILROAD
Office of Assistant Vice President
Engineering Design/Construction
LOCATION & DESCRIPTION:
Stockton, California
Oakland Subdivision MP 90.37
Industrial Drive/McKinley Avenue and UPRR Crossing Safety Improvements
SHEET TITLE:
SIGNING & STRIPING PLAN

5261.16C

SIGN	DESCRIPTION	DIMENSION
R3-2	NO LEFT TURN	24x24
R3-4	NO U TURN	24x24
R3-5	RIGHT TURN ONLY	30x36
R4-7C	KEEP RIGHT	18x30
R5-1A	WRONG WAY	30x30
R10-6(/)	STOP HERE ON RED	24x36
R13A(CA)	NO RIGHT TURN ON RED	18x30
SNS	STREET NAME SIGN	VARY
W10-1	GRADE CROSSING ADVANCE WARNING	DIA. 30
W10-3(R)	GRADE CROSSING ADVANCE WARNING	30x30
W48(1)(CA)	THE NUMBER OF TRACK	30x24
W48(3)(CA)	THE NUMBER OF TRACK	30x24



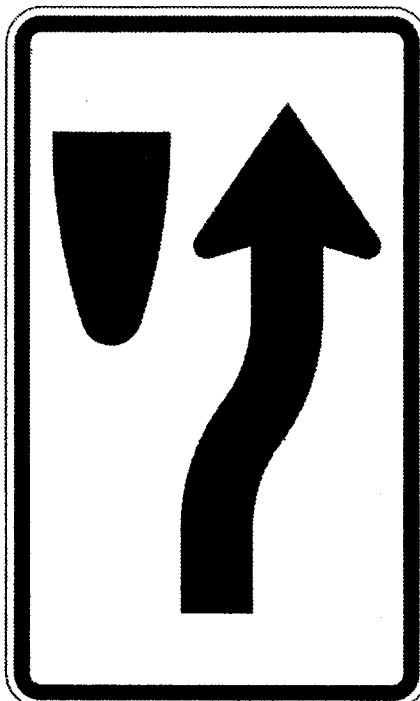
R3-2



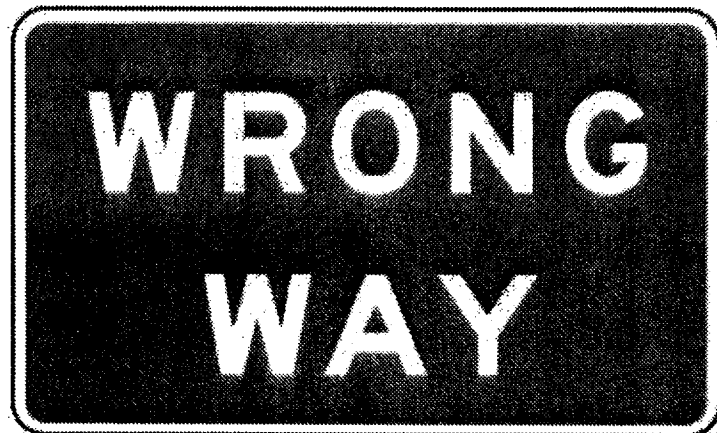
R3-4



R3-5



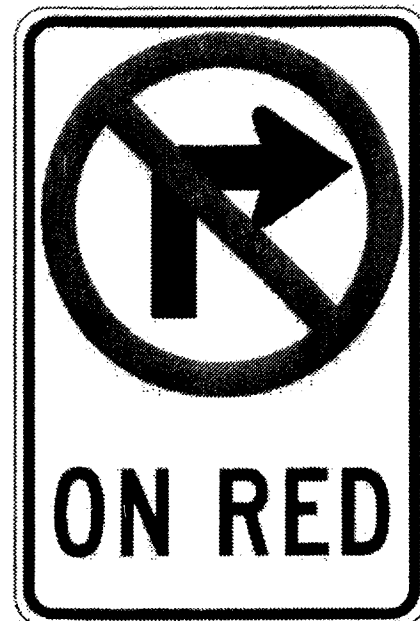
R4-7C



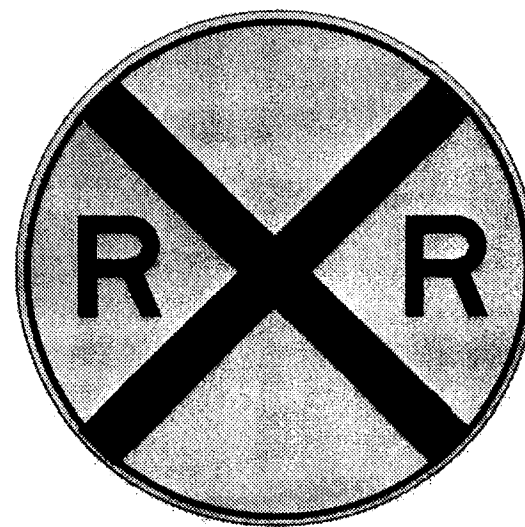
R5-1A



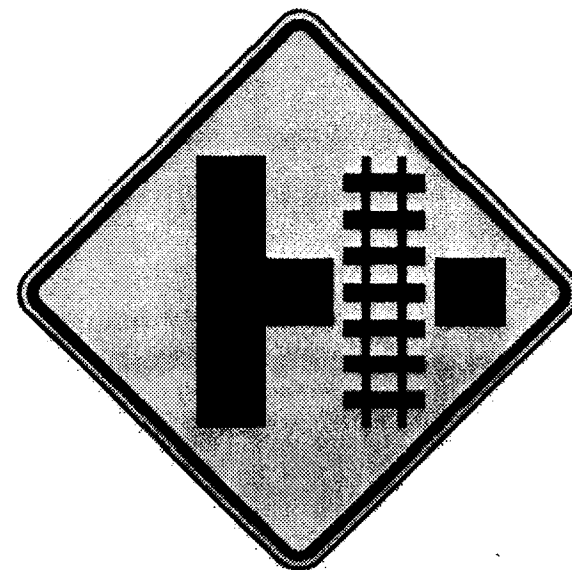
R10-6



R13A (CA)



W10-1



W10-3 (R)



W48(1)(CA)



W48(3)(CA)



Stantec

Stantec Consulting Inc.
1340 Treat Blvd. Suite 300
Walnut Creek, CA 94597
Tel. (925)941-1400
Fax. (925)941-1401



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AH
CHECKED BY:
JB
DATE:
05/06/2016
SHEET NUMBER
SS-2

UNION PACIFIC
RAILROAD

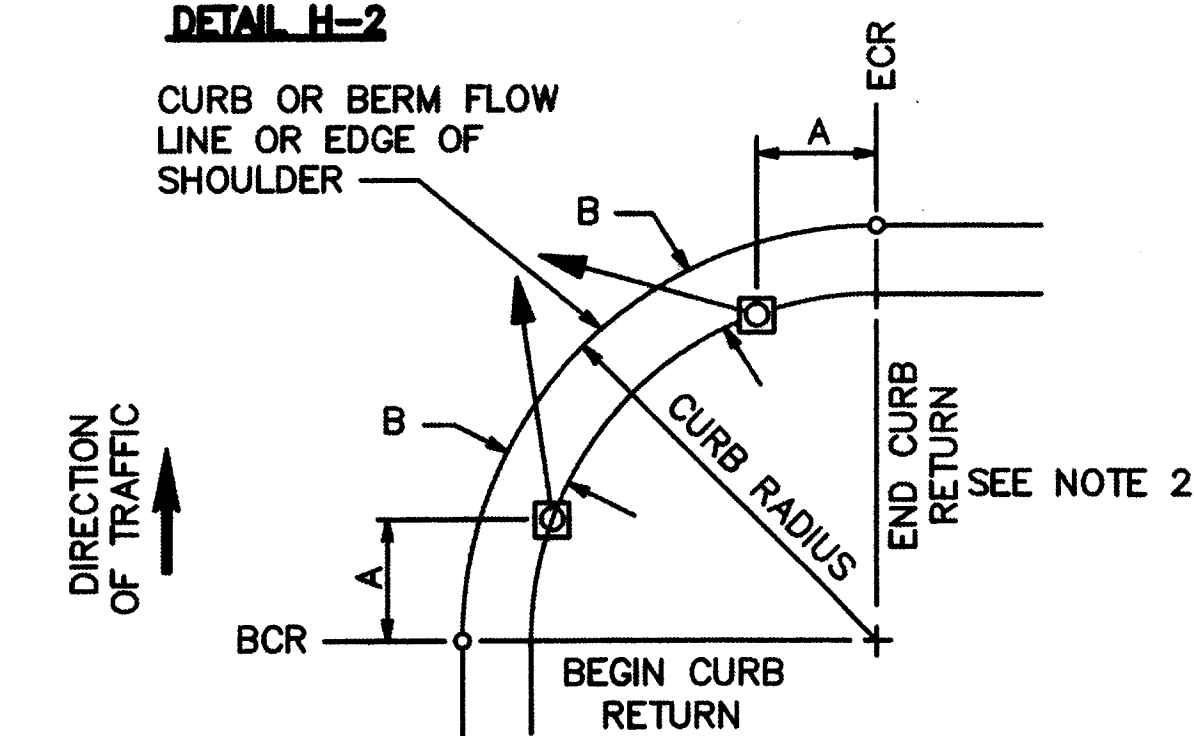
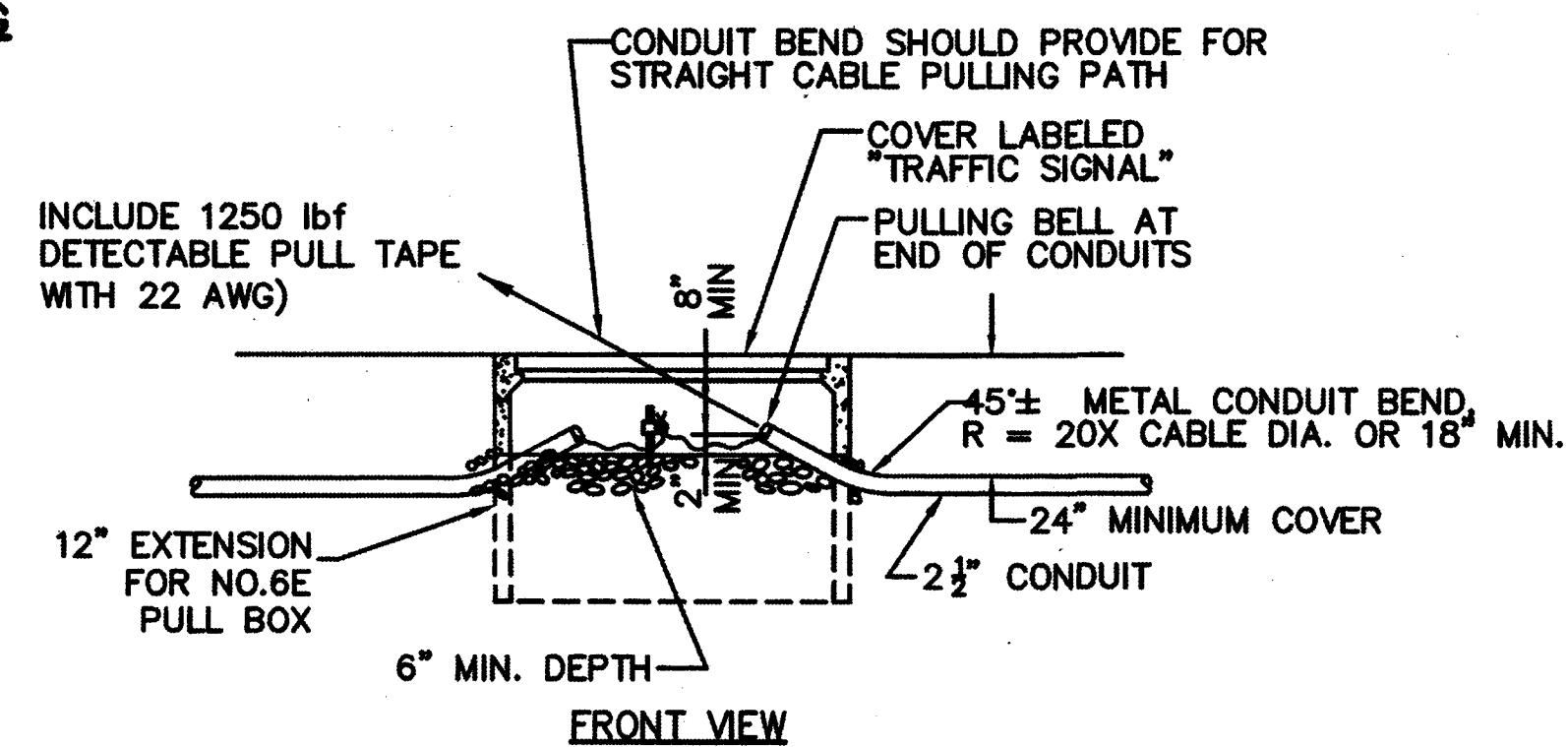
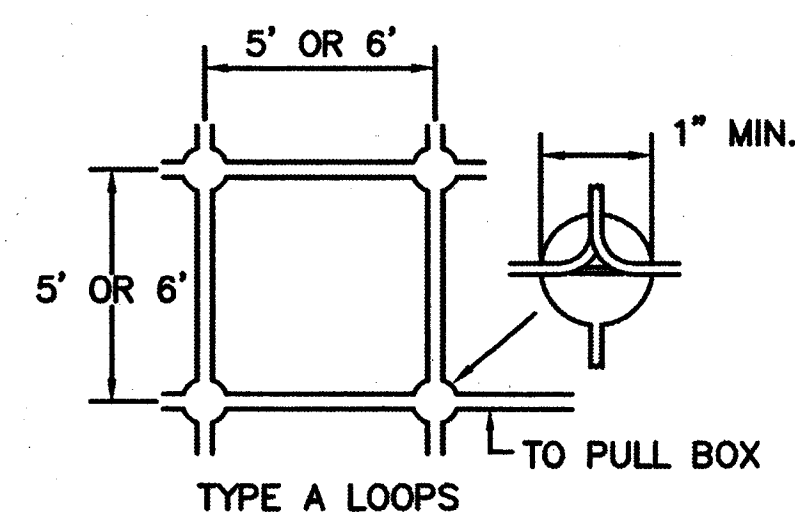
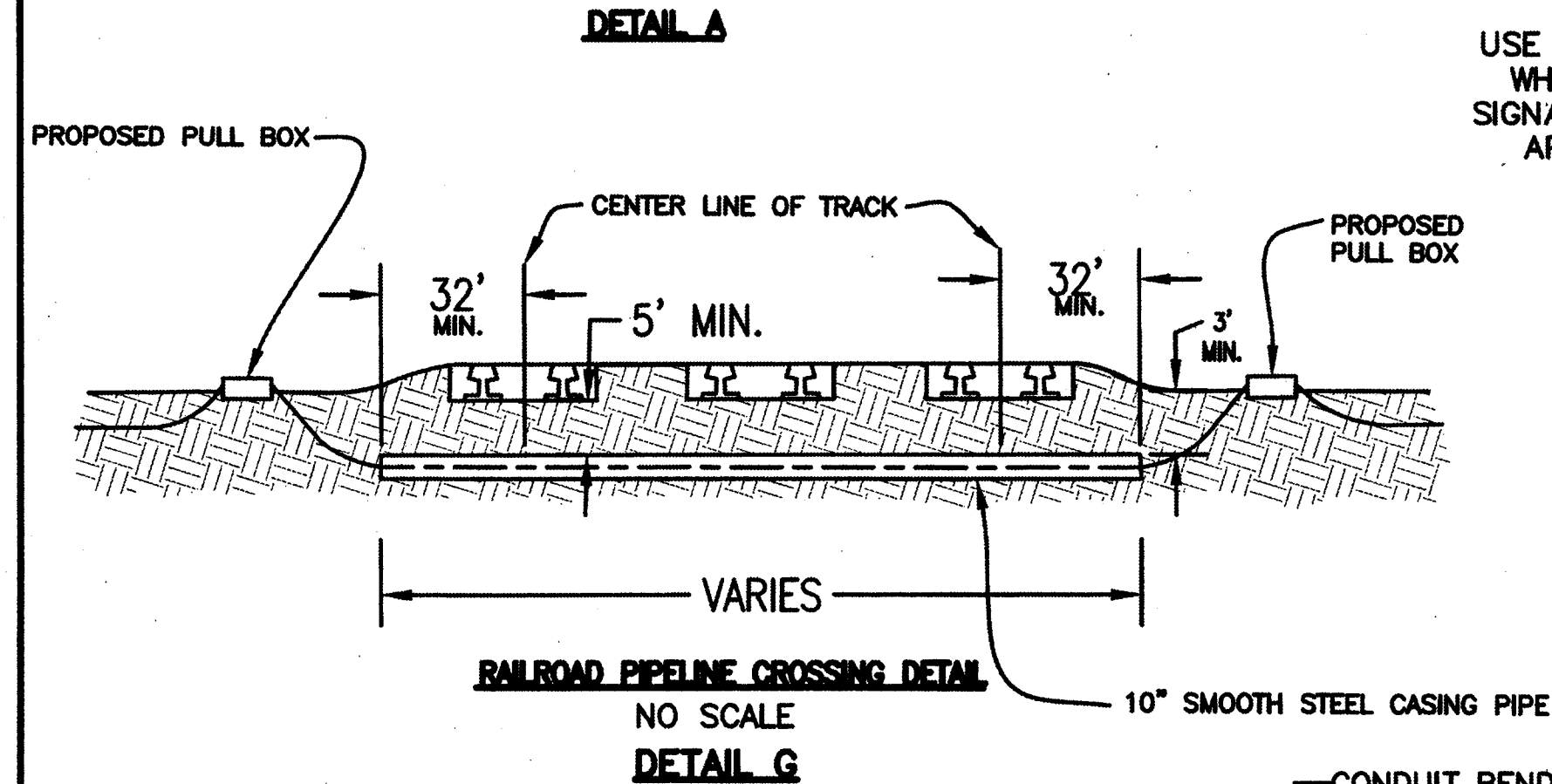
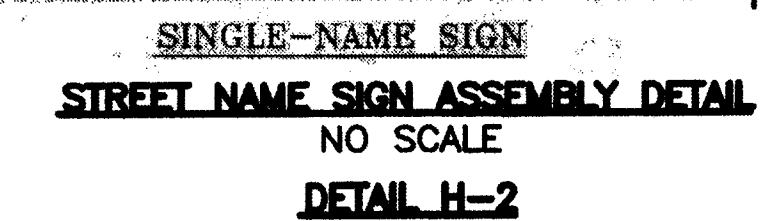
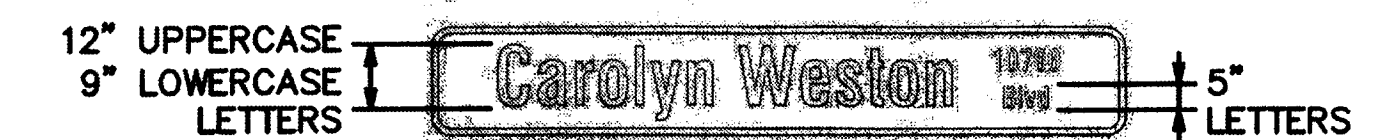
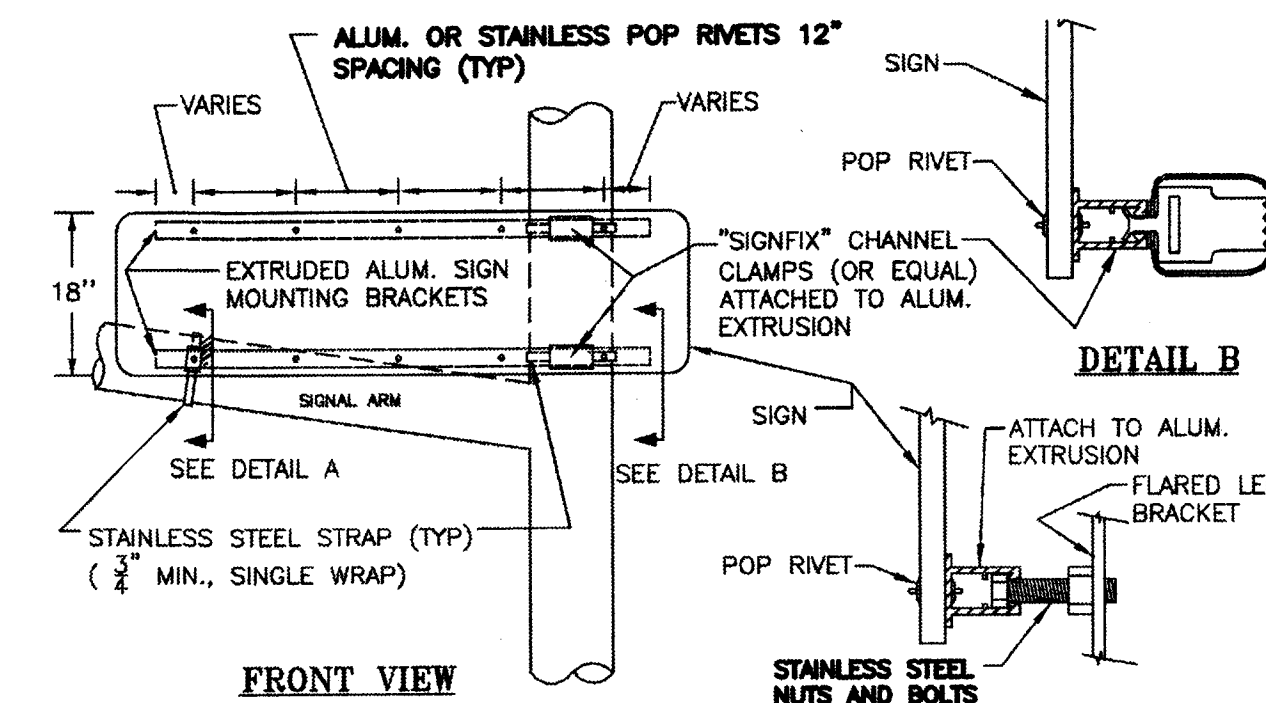
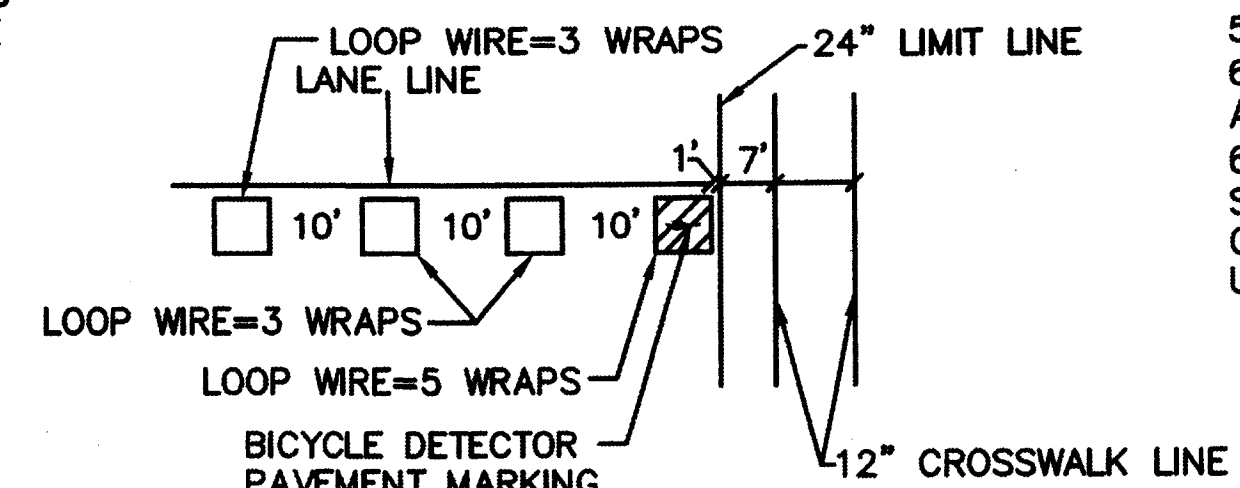
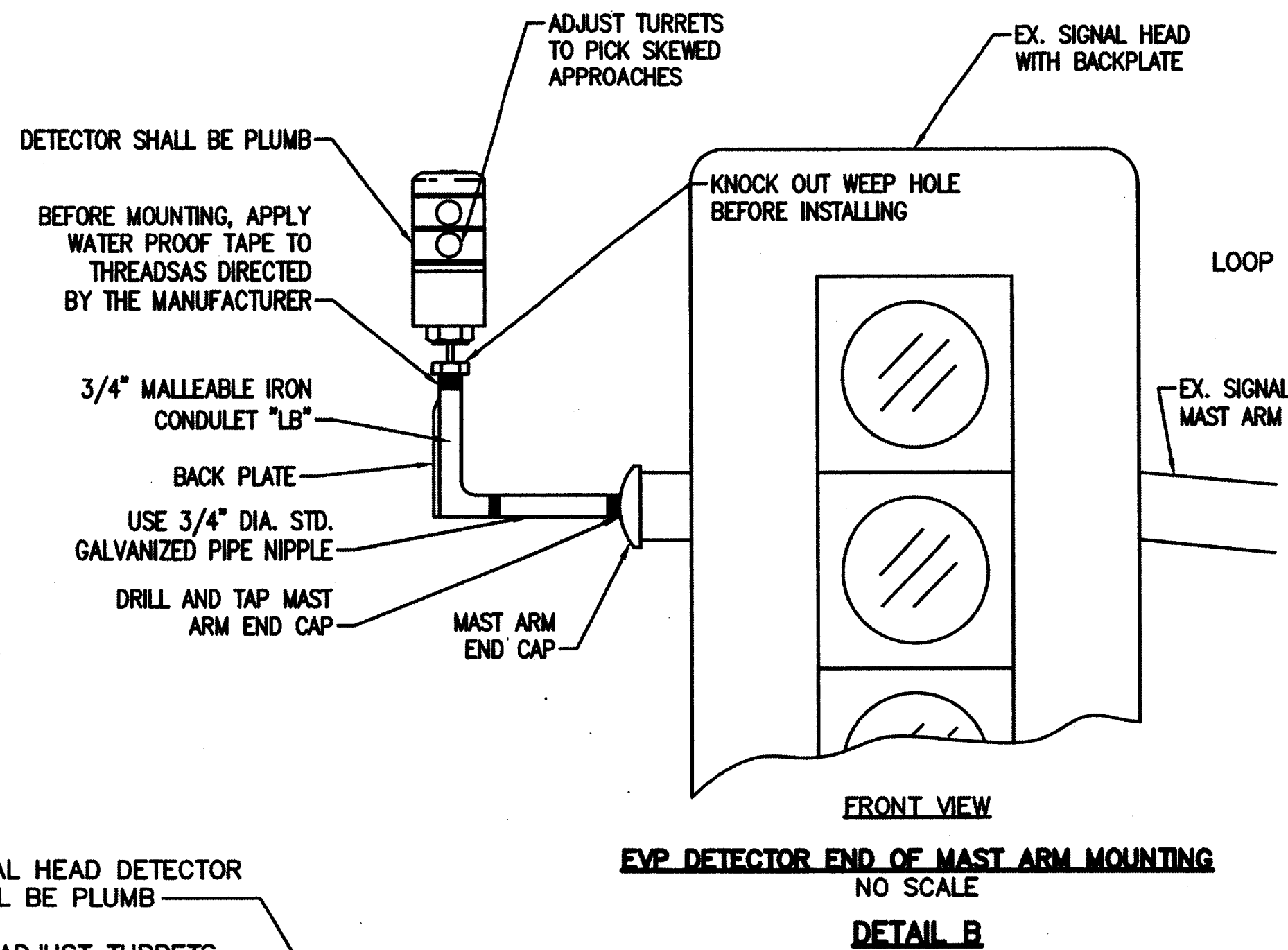
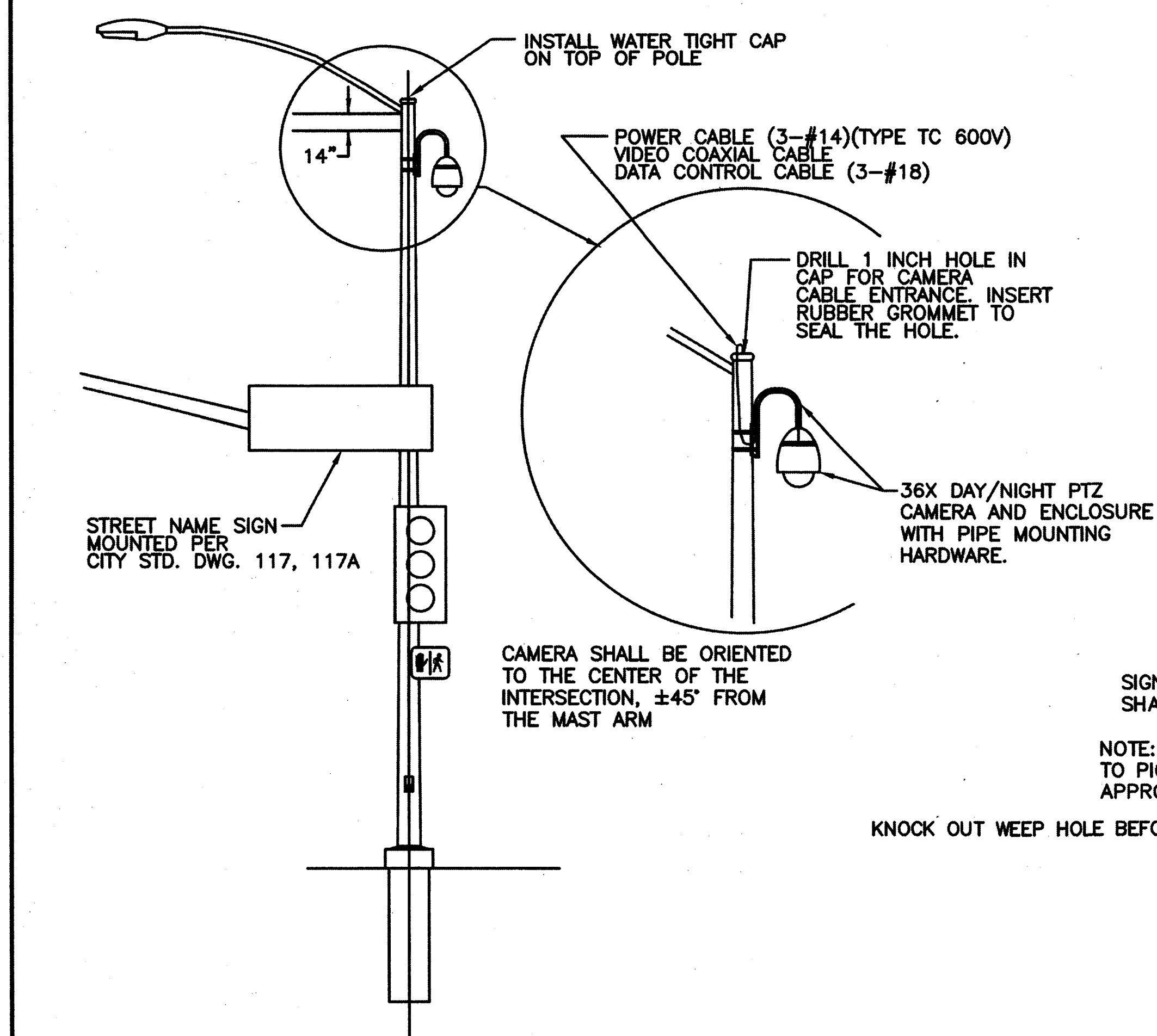
LOCATION & DESCRIPTION:

Stockton, California
Oakland Subdivision MP 90.37
Industrial Drive/McKinley Avenue and UPRR Crossing Safety Improvements

SHEET TITLE: SIGNING & STRIPING LEGEND

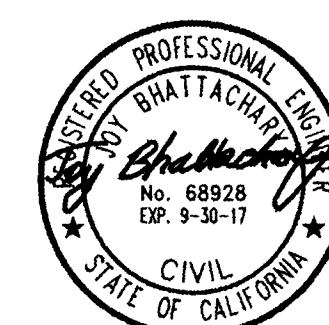
Office of Assistant Vice President
Engineering Design/Construction

5261.17C



NOTES:

1. SEE SHEET GN-1 FOR GENERAL NOTES.



Stantec Consulting Inc.
1340 Treat Blvd. Suite 300
Walnut Creek, CA 94597
Tel. (925)941-1400
Fax. (925)941-1401



DRAWN BY:	AH
CHECKED BY:	JB
DATE:	05/06/2016
SHEET NUMBER	CD-1

UNION PACIFIC RAILROAD

LOCATION & DESCRIPTION:	
<p>Stockton, California</p> <p>Oakland Subdivision MP 90.37</p> <p>Industrial Drive/McKinley Avenue and UPRR Crossing Safety Improvements</p>	
SHEET TITLE:	
CONSTRUCTION DETAILS	

5261.18C

STATEWIDE

TRAFFIC SAFETY & SIGNS

7920 CUCAMONGA AVE
SACRAMENTO CA 95826
jmurphy@stssi.com
916-452-4855

FOR REFERENCE ONLY

Statewide Traffic Safety and Signs ("Statewide") shall not be responsible for, and [SIEGFRIED & STOCKTON] shall indemnify, defend and hold harmless Statewide and its agents, representatives and employees from and against, any claims, costs, damages, liabilities, expenses, demands and losses (including attorney's fees and costs and expenses) arising out of or relating to the failure of any Traffic Control Plan applicable to Statewide's work or services to comply with any local, state or federal rule, regulation, ordinance, or statute. [SIEGFRIED & STOCKTON] agrees that the Statewide is entitled to and will rely on the written Traffic Control Plan(s) provided to Statewide by [SIEGFRIED & STOCKTON] and its agents, representatives and employees in the performance of Statewide's work or services.

DEVICE SPACING TABLE (CA MUTCD 2014 EDITION TABLE 6H-4/6H-4(CA))

POSTED SPEED	FORMULA	BUFFER SPACE	MINIMUM TAPER LENGTHS									MAXIMUM CONE SPACING		SIGN SPACING	LIDG (FT)
			10' OFFSET			11' OFFSET			12' OFFSET						
			L	1/2 L	1/3 L	L	1/2 L	1/3 L	L	1/2 L	1/3 L				
			MERGE	SHIFT	SHOULDER	MERGE	SHIFT	SHOULDER	MERGE	SHIFT	SHOULDER	LONG	TAPER & LIDG		
25	L= $\frac{WS^2}{60}$	155'	104'	52'	35'	115'	57'	38'	125'	63'	42'	25'	13'	100'	94'
30		200'	150'	75'	50'	165'	83'	55'	180'	90'	60'	30'	15'	250'	113'
35		250'	204'	102'	68'	225'	112'	75'	245'	123'	82'	35'	18'	250'	131'
40		305'	267'	133'	89'	293'	147'	98'	320'	160'	107'	40'	20'	350'	150'
45	L=WS	360'	450'	225'	150'	495'	248'	165'	540'	270'	180'	45'	23'	350'	169'
50		425'	500'	250'	167'	550'	275'	183'	600'	300'	200'	50'	25'	400' TO 600'	197'
55		495'	550'	275'	183'	605'	303'	202'	660'	330'	220'	50'	28'	440' TO 660'	210'
60		570'	600'	300'	200'	660'	330'	220'	720'	360'	240'	50'	30'	480' TO 720'	225'
65		645'	650'	325'	217'	715'	358'	238'	780'	390'	260'	50'	33'	520' TO 700'	244'
70		730'	700'	350'	233'	770'	385'	257'	840'	420'	280'	50'	35'	560' TO 820'	263'

LOW SPEED IS 40 MPH OR LESS
HIGH SPEED IS 45 MPH OR MORE

BOTH ARE BASED ON:

1. 85H % TILE OR IF NOT AVAILABLE, THEN USE
2. POSTED SPEED LIMIT (PSL)
3. ANTICIPATED SPEED

L = TAPER LENGTH

S = SPEED

W = WIDTH (OFFSET FROM PATH OF TRAVEL)

2014

RECOMMENDED ADVANCED WARNING SIGN SPACING TABLE
(CA MUTCD 2012 EDITION TABLE 6-C1,
SEE TABLE FOR ADDITIONAL INFORMATION)

ROAD TYPE	A	B	C
URBAN (LOW SPEED) 25 MPH OR LESS	100'	100'	100'
URBAN (LOW SPEED) MORE THAN 25 MPH TO 40 MPH	250'	250'	250'
URBAN (HIGH SPEED) MORE THAN 40 MPH	350'	350'	350'
RURAL	500'	500'	500'
EXPRESSWAY/FREEWAY	1,000'	1,000'	1,000'

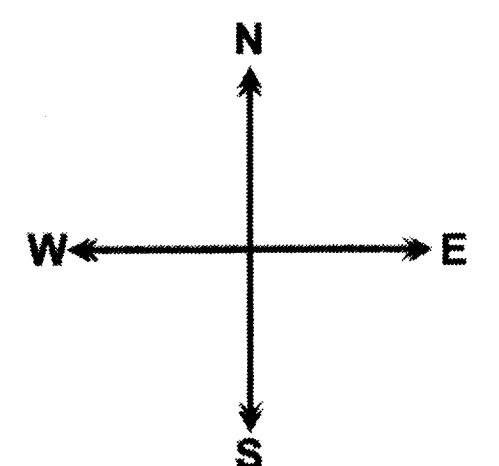
LOCATION MAP



SPEED LIMIT

SPEED
LIMIT
55

COMPASS



GENERAL NOTES

1. THIS PLAN SUPPLEMENTED WITH 2014 CA MUTCD.
2. THE LOCATION OF THE SIGNS SHOWN ON THE PLAN ARE GUIDELINES AND ACTUAL LOCATIONS WILL DEPEND UPON ALIGNMENT, GRADE, LOCATION OF THE STREET INTERSECTIONS, AND THE 85TH PERCENTILE.
3. ONLY ONE SIDEWALK WILL BE CLOSED AT A TIME. PEDESTRIAN AND DISABLED ACCESS TO BE MAINTAINED PER 2014 CA MUTCD STANDARD (STOCKTON USE STANDARD CONSTRUCTION SPEC)
4. NOTHING ALLOWED IN BUFFER/TRANSITION AREA AT ANY TIME.
5. NOTIFY LOCAL LAW ENFORCEMENT, FIRE, AMBULANCE COMPANIES WITHIN 24 HOURS BEFORE CONSTRUCTION BEGINS. KEEP OPEN ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES.
6. SIGNS AND CHANNELIZING DEVICES MUST BE RETRO REFLECTIVE OR ILLUMINATE DURING THE NIGHT. MINIMUM VIABILITY 1000'
7. CONTINUOUS MONITORING AND MAINTENANCE OF THE TRAFFIC CONTROL ZONE WILL BE IMPLEMENTED FOR THE PURPOSE OF MAINTAINING EMERGENCY ACCESS, ACCOMMODATION FOR PEDESTRIANS, BICYCLE TRAFFIC AND THE DISABLED.
8. ALL CONFLICTING MARKINGS ARE TO BE REMOVED FOR PROJECTS THAT LAST A TERM OF 3 DAYS OR LONGER.
9. ALL SIGNS IMPLEMENTED WILL ONLY BE VIEWABLE WHEN IN USE, OTHERWISE ALL WARNING DEVICES WILL BE TAKEN DOWN OR COVERED.
10. PROPER TRAINING OF TRAFFIC CONTROLLERS, PROPER DEVICES & PROPER USE OF THE DEVICES ARE REQUIRED AT ALL TIMES.



DRAWN BY:

CHECKED BY:

DATE:

07/12/2016

SHEET NUMBER

TC001

**UNION PACIFIC
RAILROAD**

LOCATION & DESCRIPTION:

Stockton, California
Oakland Subdivision MP 90.37
Industrial Drive/McKinley Avenue and UPRR Crossing Safety Improvements

SHEET TITLE:

TRAFFIC CONTROL COVER

5261.19C

	WORK ZONE		R11-2		
	TEMPORARY C.A.S.		C-19 (CA)		
	TRAFFIC FLOW		W20-2		
	W20-1		M4-10		
	REFLECTIVE CONE		R3-2		
	TYPE III BARRICADE		R11-4		

— > — DETOUR PATH OF TRAVEL

NOTE:
FLAGGER MAY BE USED TO LET BUSINESS TRAFFIC
IN AND OUT OF THE NW SIDE OF CONSTRUCTION AREA



CONSTRUCTION HOURS: 8AM TO 4:00 PM	PLAN # 576
55 MPH 10' OFFSET = 550' 11' OFFSET = 605' 12' OFFSET = 660'	DATE: 11/9/15
	ROADS: > 50 MPH MINIMUM 48" SIGN PANEL

NOTE: PLACE CMS SIGNS TO NOTIFY OF
CLOSURE(S) 7 DAYS IN ADVANCE.

WORK SHALL BE STAGED TO ALLOW
MCKINLEY AVENUE TO BE OPEN AS
LONG AS POSSIBLE. SEE SHEET V001
AND R001 FOR DETAILS.

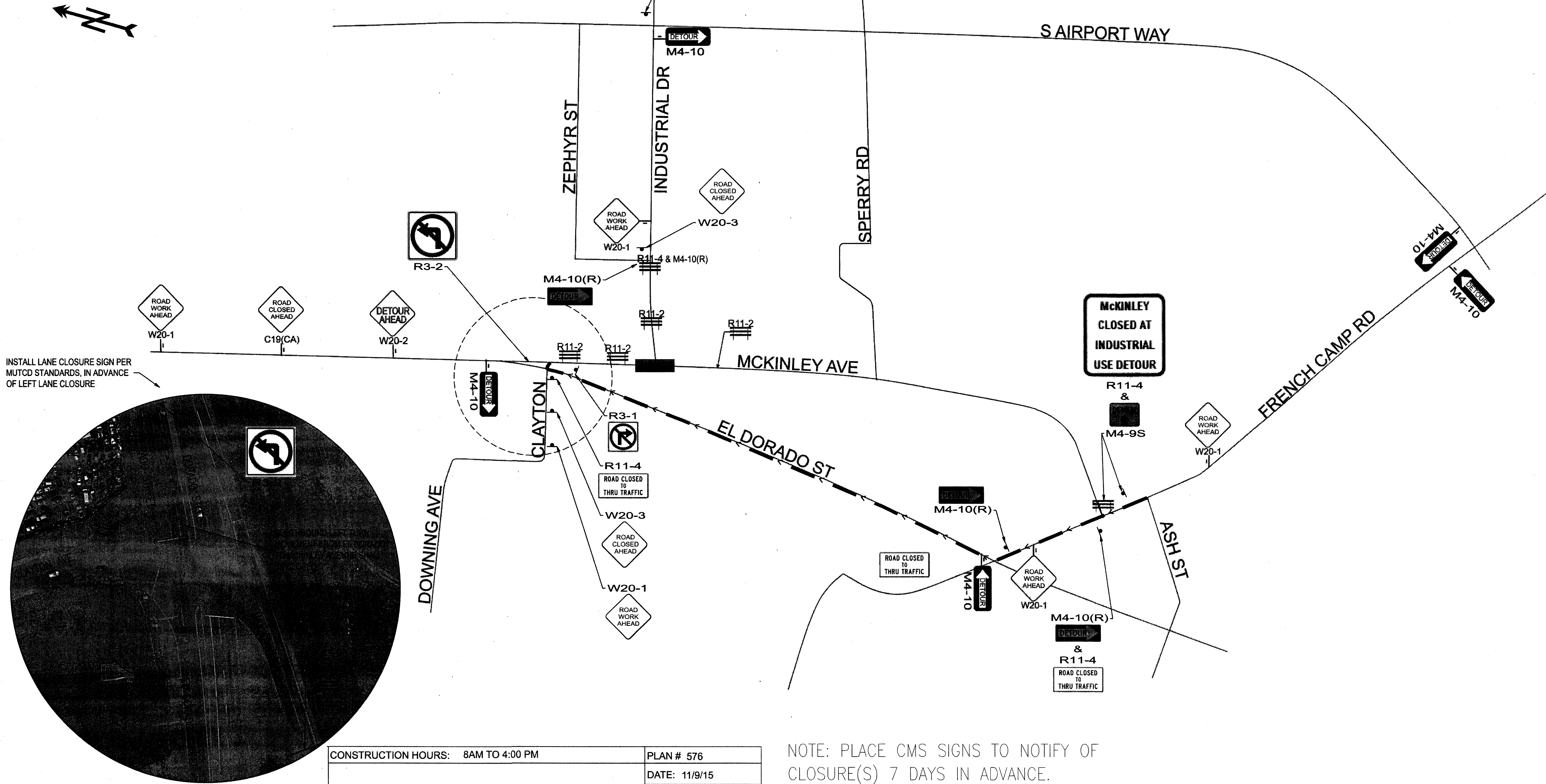
	DRAWN BY:	UNION PACIFIC RAILROAD	Office of Assistant Vice President Engineering Design/Construction
	CHECKED BY:		
	DATE:	07/12/2016	Stockton, California
	SHEET NUMBER	TC002	Industrial Drive/McKinley Avenue and UPRR Crossing Safety Improvements
		SHEET TITLE:	TRAFFIC CONTROL PLAN I

5261.20c

	WORK ZONE		R11-2		
	TEMPORARY C.A.S.		C-19 (CA)		
	TRAFFIC FLOW		W20-2		
	W20-1		M4-10		
	REFLECTIVE CONE		R3-2		
	TYPE III BARRICADE		R11-4		

ROAD CLOSED
THRU TRAFFIC
R11-4
&
M4-10(L)

— > — DETOUR PATH OF TRAVEL



CONSTRUCTION HOURS: 8AM TO 4:00 PM	PLAN # 576
55 MPH 10' OFFSET = 550' 11' OFFSET = 605' 12' OFFSET = 660'	DATE: 11/9/15
	ROADS: > 50 MPH MINIMUM 48" SIGN PANEL

NOTE: PLACE CMS SIGNS TO NOTIFY OF CLOSURE(S) 7 DAYS IN ADVANCE.

WORK SHALL BE STAGED TO ALLOW MCKINLEY AVENUE TO BE OPEN AS LONG AS POSSIBLE. SEE SHEET V001 AND R001 FOR DETAILS.

	DRAWN BY:	UNION PACIFIC RAILROAD	Office of Assistant Vice President
	CHECKED BY:		Engineering Design/Construction
	DATE:	07/12/2016	Stockton, California
	SHEET NUMBER	TC003	Oakland Subdivision MP 90.37
			Industrial Drive/McKinley Avenue and UPRR Crossing Safety Improvements
			SHEET TITLE: TRAFFIC CONTROL PLAN II

5261-21C