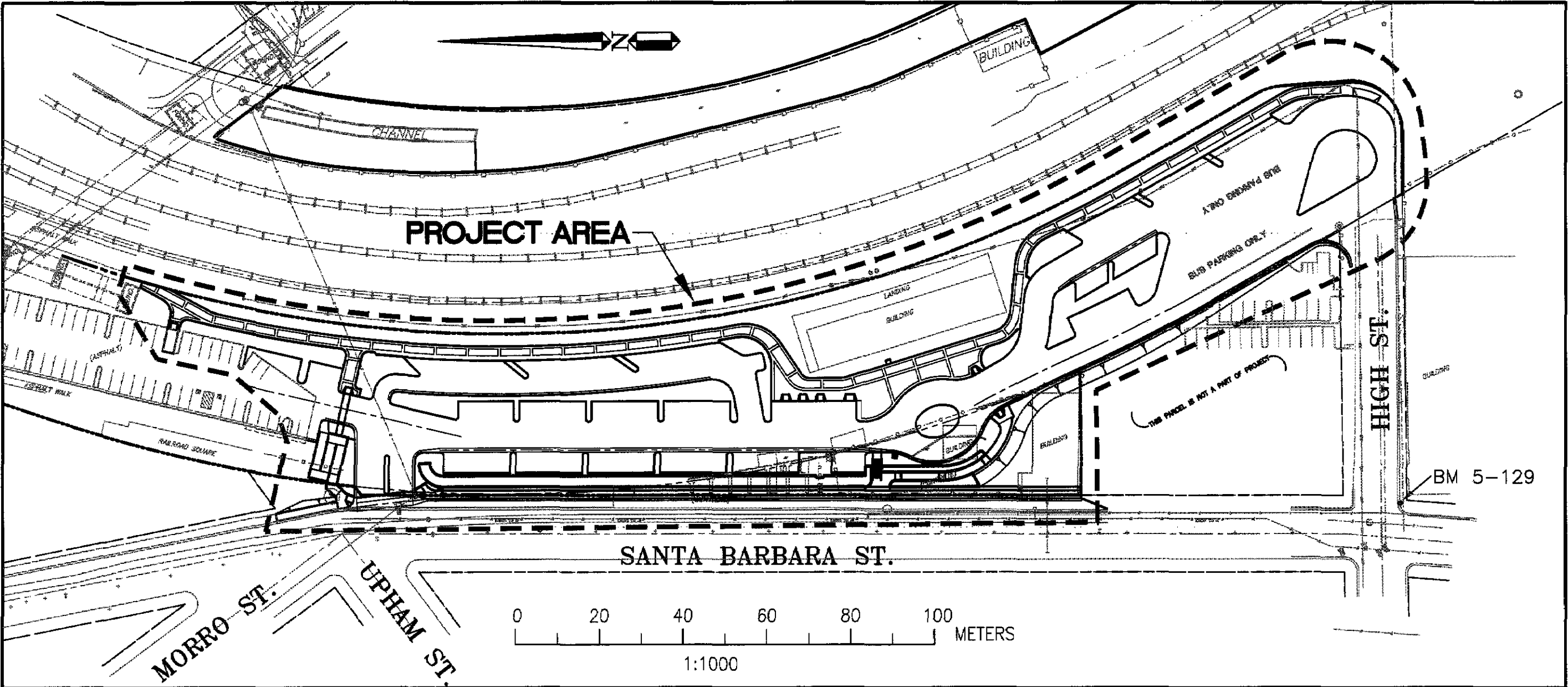
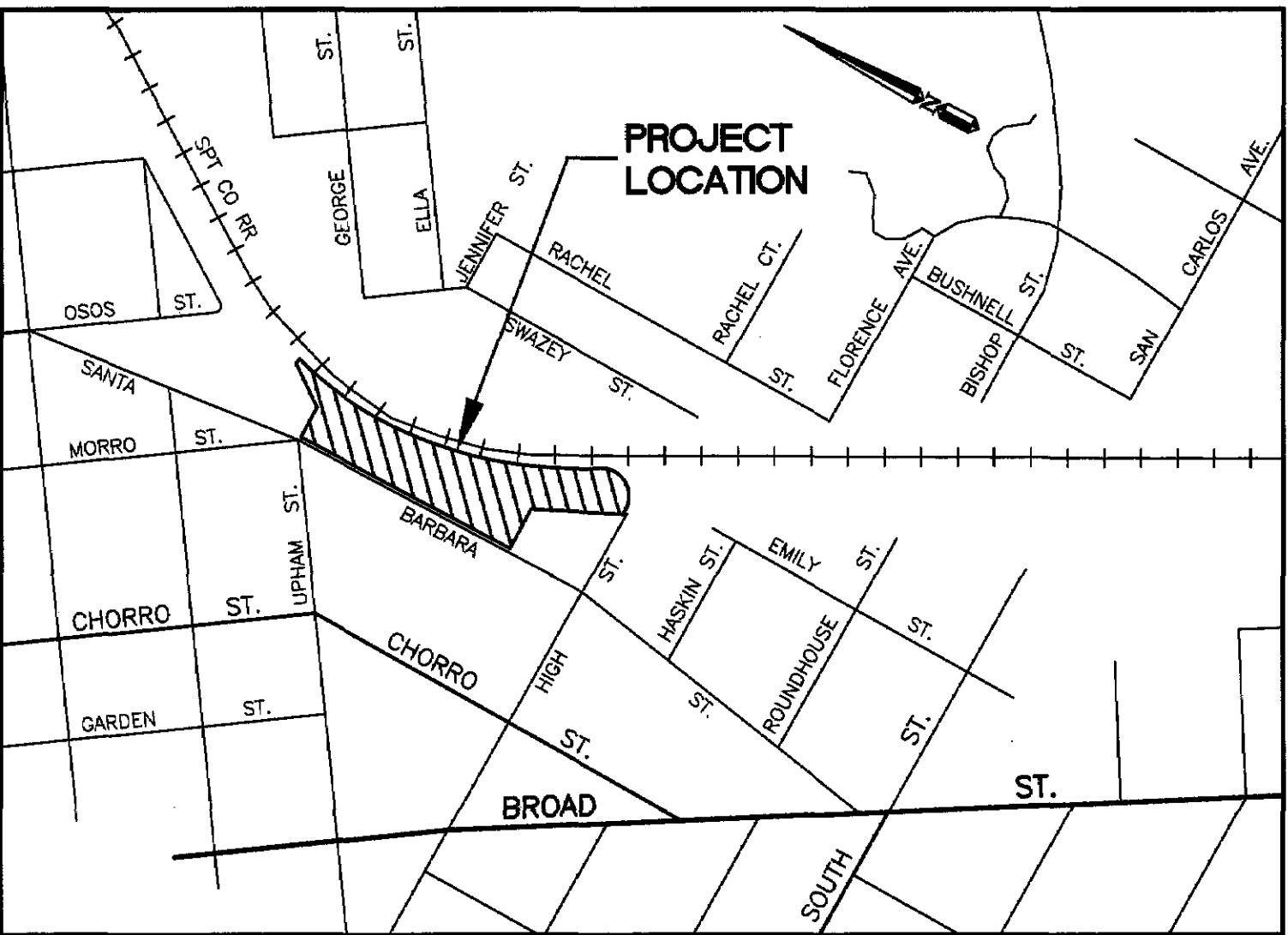


CITY OF SAN LUIS OBISPO
RAILROAD TRANSPORTATION CENTER
SPECIFICATION NO. 99059B



LOCATION MAP

City Engineering Standards Exception: Approval of the service lateral extension from the public water main in Santa Barbara Ave. to the Freight Warehouse location. A vertical double-check assembly located at or within the building has been approved in-lieu of a horizontal double-check assembly located near the public street.



VICINITY MAP

SHEET INDEX

SHEET NO.	DESCRIPTION
CIVIL SHEETS	
C1	TITLE SHEET
C2	GENERAL NOTES AND CONSTRUCTION NOTES
C3-C4	DEMOLITION PLANS
C5-C7	HORIZONTAL CONTROL PLANS
C8-C9	GRADING AND DRAINAGE PLANS
C10-C11	PAVING PLANS
C12-C13	CONSTRUCTION DETAILS
C14	CONSTRUCTION DETAILS AND TYPICAL SECTIONS
C15-C16	RETAINING WALL DETAILS
UTILITY SHEETS	
U1-U3	UTILITY PLANS
SIGNING AND STRIPING SHEETS	
S1-S3	SIGNING AND STRIPING PLANS
ELECTRICAL SHEETS	
E1-E6	ELECTRICAL PLANS
LANDSCAPE SHEETS	
L1-L5	LANDSCAPE PLANS

BENCHMARK

NO. 5-129
ELEV=69.865m
LEAD & TAG AT BCR OF SOUTHEAST CORNER OF
HIGH AND SANTA BARBARA.

BASIS OF BEARINGS

THE BASIS OF BEARINGS IS ALONG THE CENTERLINE OF
SANTA BARBARA ST. AS SHOWN ON THESE PLANS. THE
BEARING IS N. 1°58'52" E.

RECORD DRAWINGS



REVISIONS:	Record Drawing
Scale:	1" = 100'

PROJECT TITLE:	RAILROAD TRANSPORTATION CENTER
SHEET TITLE:	TITLE SHEET

DESIGNED BY:	AJR/JMT
DRAWN BY:	AJR
CHECKED BY:	JAN
APPROVED BY:	RLB
DATE:	04/28/00
CITY SPECIFICATION NO.	99059B
SHEET NO.	C1

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GENERAL CONSTRUCTION NOTES

- ALL WORK SHALL CONFORM TO THE 1998 EDITION OF THE CALIFORNIA BUILDING CODES BASED ON THE 1997 UBC, UMC, UPC AND 1996 NEC, SPECIFICATIONS AND THE STANDARDS OF THE CITY OF SAN LUIS OBISPO, UNLESS CALLED OUT AS "STATE" STANDARDS OR OTHERWISE.
- WHERE REFERENCE IS MADE TO STANDARDS, THEY SHALL CONFORM TO THE STANDARD PLANS OF THE CITY OF SAN LUIS OBISPO.
- ALL WORK SHALL BE SUBJECT TO INSPECTION. THE CITY ENGINEER'S OFFICE SHALL BE NOTIFIED NOT LESS THAN TWENTY-FOUR (24) HOURS PRIOR TO A REQUIRED INSPECTION; PHONE (805) 781-7200.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF SAN LUIS OBISPO FIRE DEPARTMENT AND THE POLICE DEPARTMENT AT LEAST 48-HOURS PRIOR TO START OF WORK.
- THE CONTRACTOR SHALL PROTECT AND RESTORE EXISTING UTILITIES IMPROVEMENTS AS PER SECTION 7 OF THE STATE STANDARD SPECIFICATIONS.
- 48-HOURS PRIOR TO ANY STREET WORK, THE CONTRACTOR SHALL CALL THE UNDERGROUND SERVICE ALERT AT 1 (800) 227-2600 AND OBTAIN AND INQUIRY IDENTIFICATION NUMBER.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL UTILITIES OF EVERY NATURE WHETHER SHOWN HEREON OR NOT TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR THE TOTAL EXPENSE OF REPAIR OR REPLACEMENT OF SAID UTILITIES DAMAGED BY OPERATIONS IN CONNECTION WITH PROSECUTION OF THE WORK.
- ACTUAL LOCATION AND EXISTENCE OF UTILITY VALVES SHALL BE FIELD VERIFIED.
- ANY CONTRACTOR PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE HIMSELF/HERSELF WITH THE SITE AND SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY OR INDIRECTLY FROM HIS/HER OPERATIONS, WHETHER OR NOT SUCH FACILITIES ARE SHOWN ON THESE PLANS.
- STATIONING REFERS TO CENTERLINE OF STREETS.
- ALL CURB DATA REFERS TO TOP OF CURB FACE.
- WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE PROSECUTED TO COMPLETION WITHOUT DELAY SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY AND PROPER PRECAUTIONS TO PROTECT ADJACENT PROPERTIES FROM ALL DAMAGE THAT MAY OCCUR FROM STORM WATER RUNOFF AND/OR DEPOSITION OF DEBRIS RESULTING FROM ANY AND ALL WORK IN CONNECTION WITH THIS PROJECT.
- DROP OFFS ON THE PAVEMENT OVER 25mm IN HEIGHT CREATED BY COLD MILLING THAT WILL REMAIN OVERNIGHT SHALL BE RAMPED WITH TEMPORARY AC PAVEMENT.
- WHERE EXISTING PAVEMENT CONCRETE SIDEWALK CURB, GUTTER OR DRIVE APPROACHES ARE TO BE REMOVED, THE JOIN LINE SHALL BE SAWCUT, EXCEPT WHERE JOIN IS AT AN EXISTING JOINT.

GRADING NOTES

- THE CONTRACTOR'S ATTENTION IS CALLED TO "GEOTECHNICAL REPORT" BY FUGRO WEST, INC. (VENTURA DATED AUGUST 31, 1999) WHICH IS AVAILABLE FROM THE CITY ON AN INFORMATION BASIS.
- BECAUSE OF THE PRESENCE OF ARTIFICIAL AND UNCERTIFIED FILL MATERIALS, AND IN ACCORDANCE WITH THE STATE STANDARD SPECIFICATIONS, SECTION 19, EARTHWORK, THE FOLLOWING WILL BE REQUIRED:
 - SITE PREPARATION:
 - PRIOR TO COMMENCING GRADING OPERATIONS, SOIL CONTAINING DEBRIS, ORGANICS, PAVEMENT OR OTHER UNSUITABLE MATERIAL SHALL BE STRIPPED AND REMOVED FROM THE IMPROVEMENT AREAS.
 - GRADING:
 - EXISTING SOILS THAT HAVE BEEN STRIPPED DURING SITE PREPARATION SHALL BE OVEREXCAVATED TO A DEPTH OF 0.6 METERS BELOW EXISTING GRADE OR THE BOTTOM OF THE STRUCTURAL SECTION, WHICHEVER RESULTS IN THE LARGER OVEREXCAVATION DEPTH.
 - IF THE EXPOSED SUBGRADE IS FIRM AND UNYIELDING, IT SHALL BE SCARIFIED TO A DEPTH OF 0.2 METERS, MOISTURE CONDITIONED AS NECESSARY, AND COMPACTED TO AT LEAST 90 PERCENT RELATIVE COMPACTION. IF THE EXPOSED SUBGRADE IS YIELDING, THE SUBGRADE SHALL BE STABILIZED BY PLACING GEOGRID, SUCH AS TENSAR BR1 OR EQUIVALENT.
 - COMPACTED FILL PLACED WITHIN 0.3 METERS OF THE BOTTOM OF THE PAVEMENT STRUCTURAL SECTION SHALL BE COMPACTED TO AT LEAST 95% RELATIVE COMPACTION.
 - THE LATEST APPROVED EDITION OF ASTM TEST METHOD D 1557 SHALL BE USED TO DETERMINE RELATIVE COMPACTION SPECIFIED ABOVE.
 - ON-SITE SOILS:
 - ON-SITE SOILS EXCAVATED AS PART OF THE GRADING ACTIVITIES CAN GENERALLY BE USED AS COMPACTED FILL, PROVIDED THEY ARE FREE OF ORGANIC MATERIAL, ROCKS GREATER THAN 0.1 METER IN DIAMETER, AND OTHER DELETERIOUS MATERIALS.
 - IMPORTED FILL:
 - IMPORTED FILL USED IN PAVEMENT AREAS SHOULD HAVE A MINIMUM R VALUE OF 10, AS CONFIRMED BY AN INDEPENDENT TESTING LABORATORY.
- ANY MODIFICATIONS OF OR CHANGES IN APPROVED GRADING PLANS MUST BE APPROVED BY THE CITY ENGINEER.
- ALL GRADED SITES MUST HAVE DRAINAGE SWALES, BERMS, AND OTHER DRAINAGE DEVICES APPROVED AT THE ROUGH GRADING STAGE.
- THE CONTRACTOR MUST SET DRAINAGE STAKES FOR ALL DRAINAGE DEVICES.
- SEPARATE PLANS FOR TEMPORARY DRAINAGE AND EROSION CONTROL MEASURES TO BE USED DURING THE RAINY SEASON MUST BE SUBMITTED PRIOR TO ANY WORK, OR OCTOBER 1, WHICHEVER COMES FIRST. THE EROSION CONTROL DEVICES SHOW ON SAID PLANS MUST BE INSTALLED BY NO LATER THAN NOVEMBER 1, AND MAINTAINED IN OPERABLE CONDITION UNTIL APRIL 15 OF THE FOLLOWING YEAR.
- FILLS SHALL BE COMPACTED THROUGHOUT THEIR FULL EXTENT TO A MINIMUM OF 90 PERCENT (95 PERCENT WITHIN 0.3m OF BOTTOM OF STRUCTURAL SECTION) OF MAXIMUM DRY DENSITY AS DETERMINED BY A.S.T.M. SOIL COMPACTION TEST D. 1557.
- SUFFICIENT TESTS TO THE EMBANKMENT SHALL BE MADE TO DETERMINE THE DENSITY THEREOF. THE MINIMUM NUMBER OF TESTS SHALL BE AS FOLLOWS:
 - ONE TEST FOR EACH 600mm VERTICAL FILL.
 - ONE TEST FOR EACH 1,000 CUBIC METERS OF MATERIAL PLACED.SUFFICIENT TESTS OF EMBANKMENT SHALL BE MADE TO VERIFY COMPLIANCE OF THE SOIL PROPERTIES WITH THE DESIGN REQUIREMENTS INCLUDING SOIL TYPES AND SHEAR STRENGTHS.

THE CITY WILL PERFORM TESTING PER SECTION 19 OF THE STANDARD SPECIFICATIONS.
- NO FILL SHALL BE PLACED UNTIL STRIPPING OF VEGETATION, REMOVAL OF UNSUITABLE SOILS, AND INSTALLATION OF SUBDRAINS (IF ANY) HAVE BEEN INSPECTED AND APPROVED BY THE CITY ENGINEER OR HIS DESIGNATED REPRESENTATIVE.
- NO ROCK OR SIMILAR MATERIAL GREATER THAN 75mm IN DIAMETER WILL BE PLACED IN THE FILL UNLESS RECOMMENDATIONS FOR SUCH PLACEMENT HAVE BEEN SUBMITTED BY THE CONTRACTOR AND APPROVED IN ADVANCE BY THE CITY ENGINEER OR HIS DESIGNATED REPRESENTATIVE.
- CONTINUOUS INSPECTION BY THE CITY ENGINEER OR HIS RESPONSIBLE REPRESENTATIVE SHALL BE PROVIDED DURING ALL FILL PLACEMENT AND COMPACTION OPERATIONS.
- FILL SLOPES IN EXCESS OF 2:1 STEEPNESS RATIO ARE TO BE CONSTRUCTED BY THE PLACEMENT OF SOIL AT SUFFICIENT DISTANCE BEYOND THE PROPOSED FINISH SLOPE TO ALLOW COMPACTION REQUIREMENT TO BE OPERATED AT THE OUTER LIMITS OF THE FINAL SLOPE SURFACE. THE EXCESS FILL IS TO BE REMOVED PRIOR TO COMPLETION OF ROUGH GRADING. (OTHER CONSTRUCTION PROCEDURES MAY BE USED WHEN IT IS DEMONSTRATED TO THE SATISFACTION OF THE CITY ENGINEER THAT THE ANGLE OF SLOPE, CONSTRUCTION METHOD AND OTHER FACTORS WILL HAVE EQUIVALENT EFFECT).
- THE CITY ENGINEER OR HIS DESIGNATED REPRESENTATIVE SHALL PROVIDE SUFFICIENT INSPECTIONS DURING THE PREPARATION OF THE NATURAL GROUND AND THE PLACEMENT AND COMPACTION OF THE FILL TO BE SATISFIED THAT THE WORK IS BEING PERFORMED IN ACCORDANCE WITH THE PLAN AND APPLICABLE CODE REQUIREMENTS.
- CONTRACTOR SHALL NOTE THE POTENTIAL FOR RAILROAD TIES AND TRACK WITHIN THE GRADING SECTION. ALL RAILROAD TIES AND TRACK SHALL BE REMOVED. THE REMOVED TRACK SHALL BE SALVAGED PER SECTION 8.2 OF THE SPECIAL PROVISIONS. THE REMOVED TIES SHALL BE DISPOSED OF PER SECTION 18.3 OF THE SPECIAL PROVISIONS.

MATERIALS NOTES

- AGGREGATE BASE SHALL CONSIST OF IMPORTED MATERIAL CONFORMING TO THE STATE STANDARD SPECIFICATIONS FOR CLASS 2 AGGREGATE BASE SECTION 26-1.02A.
- AGGREGATE SUBBASE SHALL CONSIST OF MATERIAL CONFORMING TO SECTION 25-1.02A, "CLASS 3 AGGREGATE SUBBASE", OF THE STATE STANDARD SPECIFICATIONS.
- ASPHALT CONCRETE SHALL CONSIST OF TYPE B, 19MM MAXIMUM/MEDIUM GRADING CONFORMING TO SECTION 39, " ASPHALT CONCRETE", OF THE STATE STANDARD SPECIFICATIONS.
- PORTLAND CEMENT CONCRETE TO BE USED FOR PAVEMENT CONSTRUCTION SHALL CONFORM TO THE STATE STANDARD SPECIFICATIONS PORTLAND CEMENT CONCRETE, SECTION 90, AND HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 28 MPA.
- STRUCTURE BACKFILL MATERIAL SHALL MEET THE REQUIREMENTS OF SECTION 19-3.06 OF THE STATE STANDARD SPECIFICATIONS.
- GEOGRID MATERIAL SHALL CONSIST OF TENSAR BR1 OR EQUIVALENT.
- GEOTEXTILE FABRIC SHALL CONSIST OF MIRAFI 500X OR EQUIVALENT.
- FILTER FABRIC SHALL CONSIST OF MIRAFI 140N OR EQUIVALENT.

SYMBOLS LEGEND

	CONSTRUCTION NOTE
	STRIPING NOTE
	DRAINAGE NOTE
	SEWER AND WATER NOTES
	COORDINATE DATA NOTE
	CURVE DATA NOTE
	DETAIL REFERENCE DETAIL NUMBER SHEET WHERE DETAIL IS LOCATED

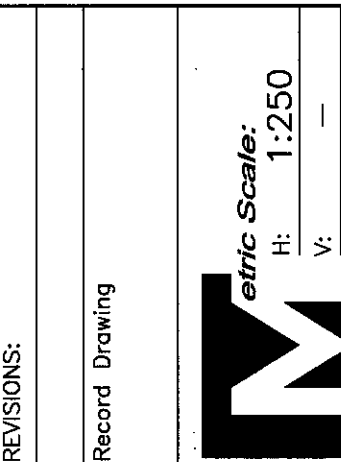
ABBREVIATIONS

AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
AS	AGGREGATE SUBBASE
APWA	AMERICAN PUBLIC WORKS ASSOCIATION
CB	CATCH BASIN
CL	CENTERLINE
CONST	CONSTRUCTION
DWY	DRIVEWAY
EXIST	EXISTING
FG	FINISHED GRADE
FH	FIRE HYDRANT
FL	FLOWLINE
FS	FINISHED SURFACE
HT	HEIGHT
INV	INVERT
LT	LEFT
MAX	MAXIMUM
M	METER
MH	MANHOLE
MIN	MINIMUM
mm	MILLIMETER
NTS	NOT TO SCALE
OG	ORIGINAL GROUND
PVMT	PAVEMENT
RET	RETAINING WALL
RT	RIGHT
S	SLOPE
SD	STORM DRAIN
STA	STATION
STD	STANDARD
TC	TOP OF CURB
TG	TOP OF GRADE
TYP	TYPICAL



BOYLE
ENGINEERING CORPORATION

city of
san luis obispo



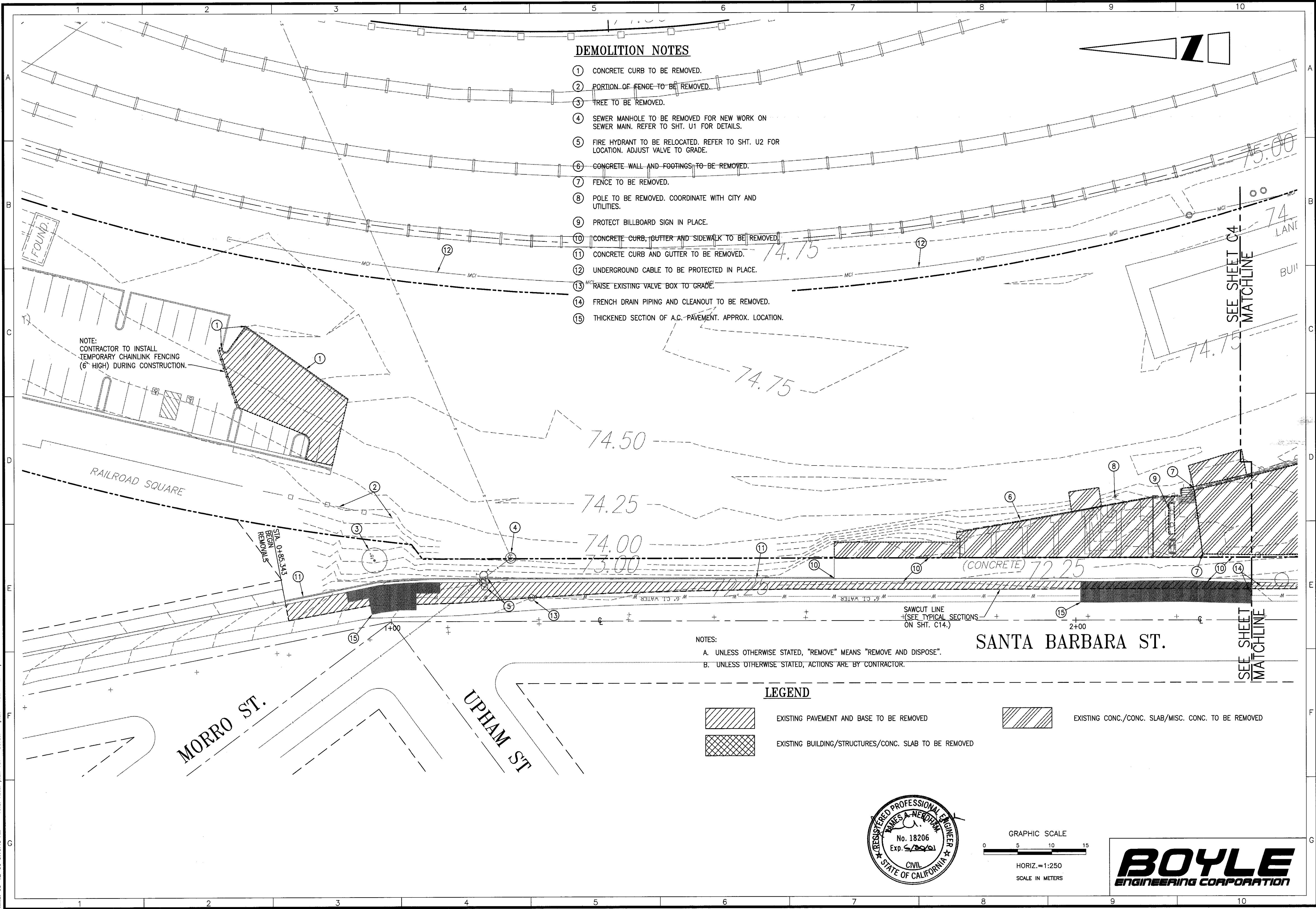
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RAILROAD TRANSPORTATION CENTER

SHEET TITLE:
GENERAL NOTES AND CONSTRUCTION NOTES

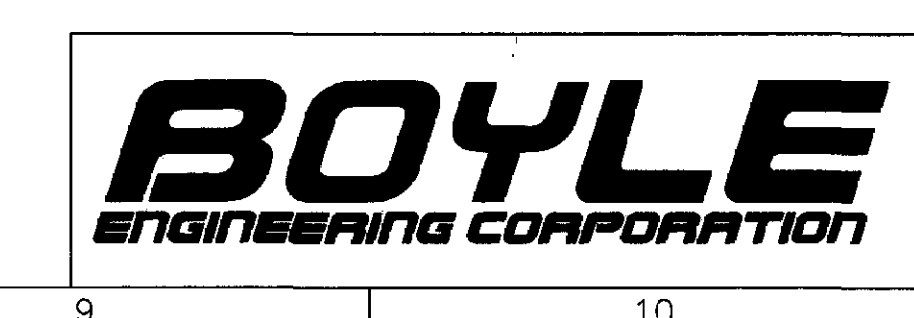
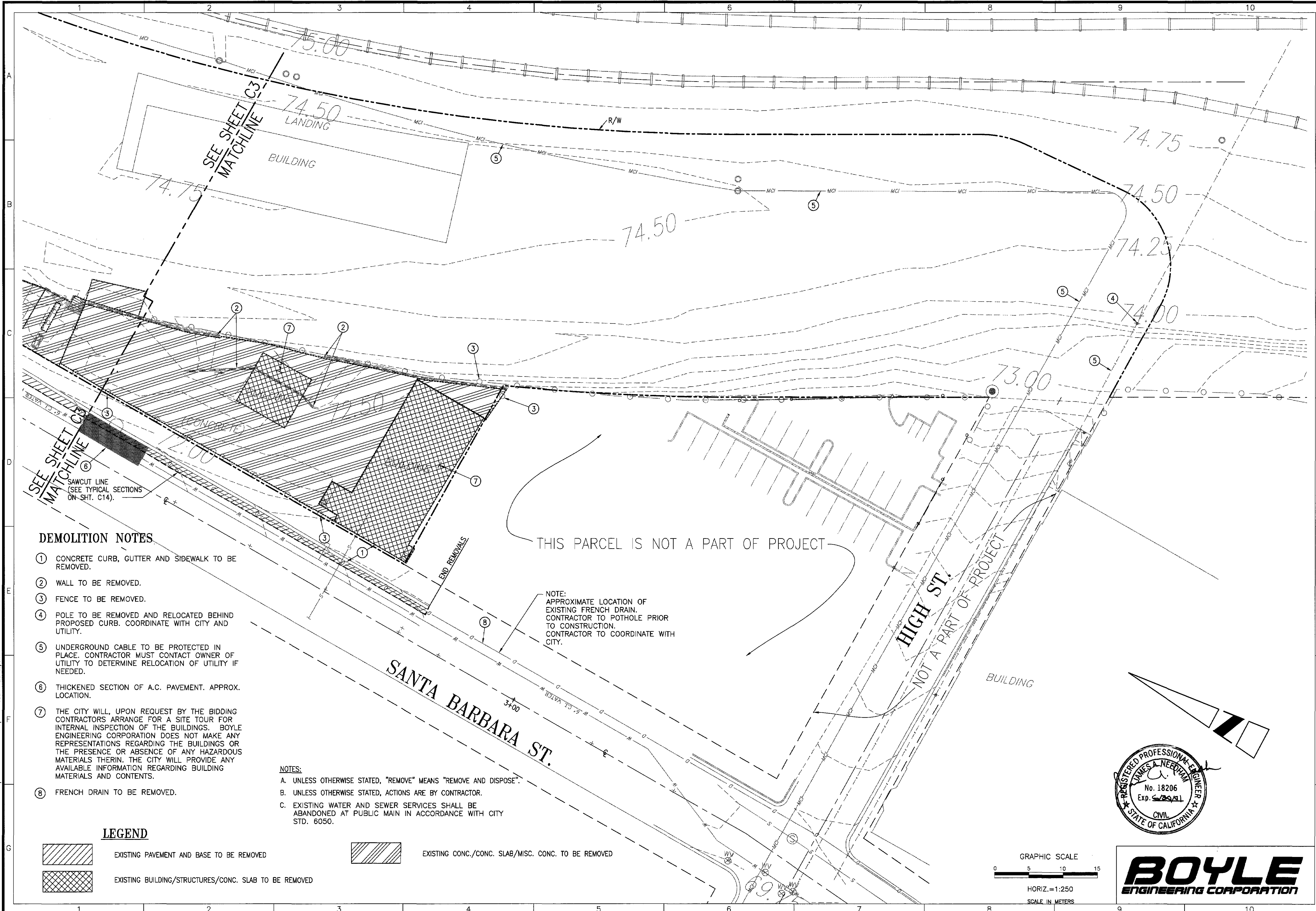
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AJR/JMT
DRAWN BY:
AJR
CHECKED BY:
JAN
APPROVED BY:
RLB
DATE:
04/28/00
CITY SPECIFICATION NO.
99059B
SHEET NO.

C2

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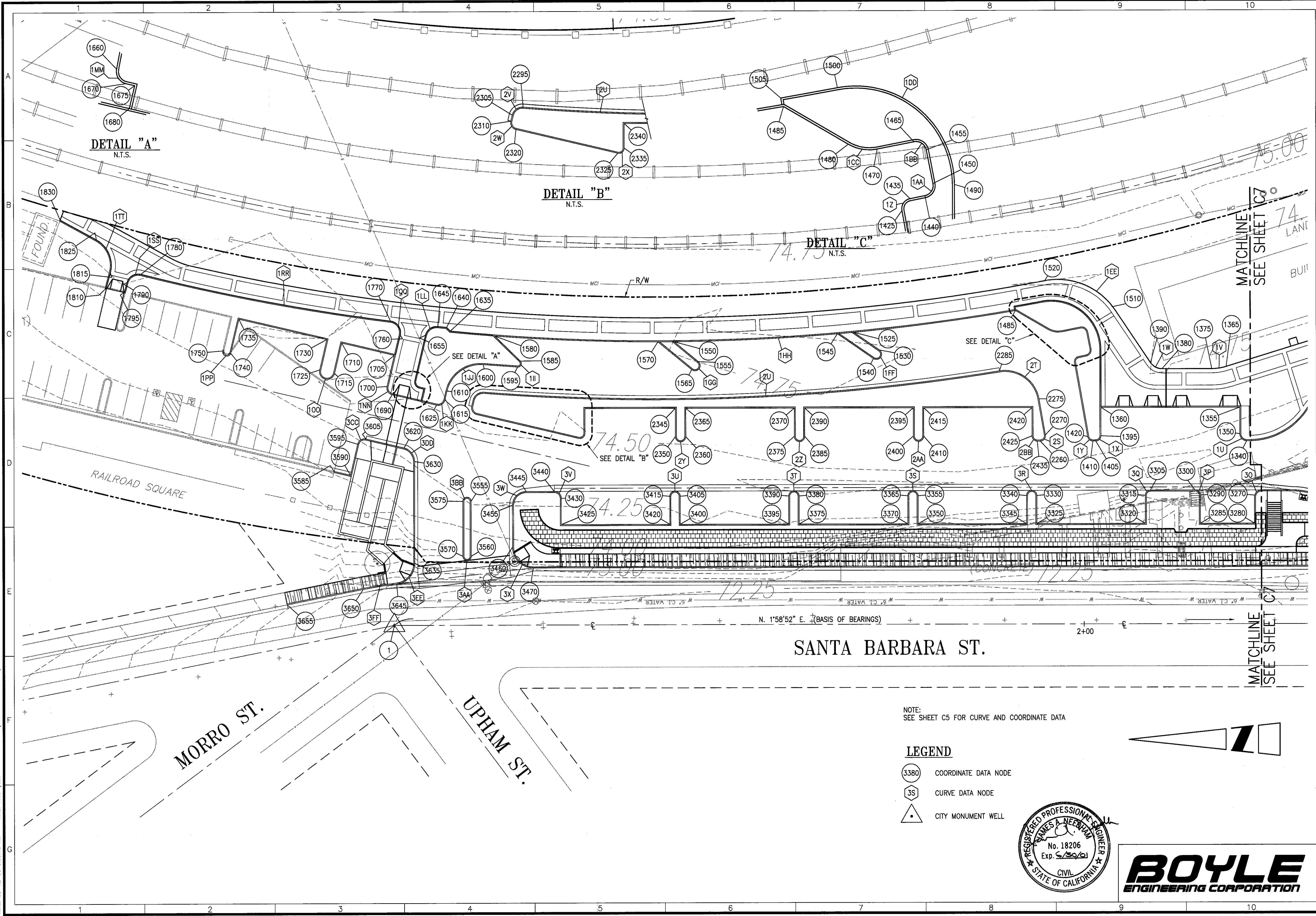
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Date: 05-12-00 09:20:20 AM

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1A 1020	61°37'18"	8.000	8.604	4.771	2FF 2490	66°06'49"	1.000	1.154	0.651	1210	1758428.849	699849.142	1600	1758408.830	700008.397	2135	1758425.296	699846.699	3030	1758404.247	699845.509	3405	1758388.716	699980.580
1B 1030	94°02'20"	12.000	19.696	12.877	2GG 2176	0°46'45"	330.380	4.486	2.247	1215	1758429.969	699857.214	1605	1758403.864	700008.977	2140	1758423.680	699849.754	3035	1758105.290	699723.807	3410	1758388.742	699981.330
1C 1040	79°12'59"	16.000	22.121	13.240	2HH 2196	2°46'23"	324.333	15.720	7.850	1220	1758427.194	699857.599	1610	1758405.182	700013.800	2145	1758420.813	699848.237	3040	1758395.927	699864.225	3415	1758388.768	699982.080
1D 1050	81°28'08"	2.000	2.844	1.722	3A 3010	119°03'30"	6.000	12.468	10.198	1225	1758426.569	699856.598	1615	1758403.897	700014.151	2150	1758421.259	699851.450	3045	1758386.923	699859.874	3420	1758384.670	699982.221
1E 1075	71°40'55"	0.650	0.813	0.470	3B 3025	5°43'46"	336.783	33.694	16.853	1230	1758414.555	699859.201	1620	1758404.161	700015.116	2155	1758413.627	699852.509	3050	1758390.990	699869.010	3425	1758385.214	699997.932
1F 1090	25°19'50"	10.150	4.487	2.281	3C 3035	3°38'18"	322.780	20.486	10.252	1235	1758415.930	699869.106	1625	1758403.196	700015.379	2160	1758415.930	699869.106	3055	1758396.238	699880.793	3430	1758389.061	699997.799
1G 1115	180°00'02"	0.750	2.356	NA	3D 3045	40°12'37"	10.000	7.018	3.660	1240	1758407.091	699864.430	1630	1758404.360	700019.639	2165	1758410.321	699853.316	3060	1758385.066	699887.242	3435	1758389.096	699998.798
1H 1140	180°00'02"	0.750	2.356	NA	3E 3055	95°59'36"	12.899	21.611	14.324	1241	1758414.576	699859.350	1635	1758413.856	700013.008	2170	1758410.120	699852.751	3065	1758376.405	699892.240	3440	1758390.095	699998.764
1I 1165	119°28'03"	0.750	1.564	1.285	3F 3065	28°00'43"	10.000	4.889	2.494	1245	1758414.616	699859.663	1640	1758414.418	700013.520	2175	1758409.567	699852.517	3070	1758386.399	699891.895	3445	1758390.236	700002.833
1J 1180	54°13'29"	10.000	9.463	5.120	3G 3090	27°25'39"	6.000	2.872	1.464	1250	1758413.919	699859.663	1645	1758414.594	700014.791	2180	1758411.915	699846.842	3075	1758386.555	699896.405	3450	1758388.237	700002.903
1K 1195	3°41'23"	305.443	19.678	9.839	3H 3100	77°08'15"	17.000	22.887	13.556	1255	1758414.406	699860.161	1650	1758412.960	700015.021	2185	1758412.839	699847.223	3080	1758396.439	699862.811	3455	1758388.306	700004.901
1L 1210	58°52'17"	8.150	8.374	4.599	3I 3115	90°00'01"	1.250	1.963	1.250	1260	1758419.087	699866.649	1655	1758413.395	700016.612	2190	1758413.224	699846.300	3085	1758394.364	699861.812	3460	1758382.196	700005.113
1M 1235	54°13'09"	10.000	9.463	5.119	3J 3140	30°00'00"	5.000	2.618	1.340	1265	1758410.735	699866.874	1660	1758406.835	700018.404	2195	1758416.776	699847.780	3090	1758390.328	699857.372	3465	1758382.097	700002.115
1N 1250	45°38'31"	0.697	0.555	0.293	3K 3155	30°00'00"	5.000	2.618	1.340	1270	1758411.368	699864.548	1665	1758406.633	700017.527	2196	1758716.174	699972.490	3095	1758391.865	699863.172	3470	1758379.094	700002.218
1O 1260	38°58'01"	8.000	5.440	2.830	3L 3180	69°05'14"	2.000	2.412	1.377	1275	1758407.669	699865.754	1670	1758405.765	700017.764	2200	1758423.170	699833.421	3100	1758396.221	699879.604	3475	1758376.943	700001.782
1P 1275	94°09'56"	3.264	5.364	3.510	3M 3200	87°32'09"	0.610	0.932	0.584	1280	1758406.329	699868.730	1675	1758405.594	700017.139	2205	1758419.693	699831.771	3105	1758379.231	699880.192	3480	1758380.937	699897.450
1Q 1295	66°52'32"	5.000	5.836	3.302	3N 3255	90°00'01"	1.500	2.356	1.500	1285	1758405.279	699868.174	1680	1758403.954	700017.587	2210	1758420.122	699830.867	3110	1758379.582	699880.348	3485	1758381.277	699907.261
1R 1310	37°31'44"	10.000	6.550	3.397	3O 3265	89°59'58"	1.000	1.571	1.000	1290	1758418.400	699861.697	1685	1758404.761	700021.109	2215	1758419.220	699830.436	3115	1758378.333	699890.391	3490	1758380.786	699907.528
1S 1320	62°26'25"	13.440	14.647	8.146	3P 3295	90°00'01"	0.750	1.178	0.750	1295	1758419.087	699866.649	1690	1758404.947	700021.790	2220	1758389.738	699883.108	3120	1758378.376	699891.640	3495	1758380.837	699909.027
1T 1330	55°22'56"	10.000	9.666	5.248	3Q 3310	90°00'01"	0.750	1.178	0.750	1300	1758414.263	699865.336	1695	1758405.912	700021.527	2225	1758392.347	699875.096	3125	1758378.136	699891.649	3500	1758381.346	699909.260
1U 1345	90°00'01"	1.000	1.571	1.000	3R 3335	180°00'00"	0.750	2.356	NA	1305	1758404.031	699870.213	1700	1758406.176	700022.492	2230	1758396.944	699876.828	3130	1758376.854	699854.579	3505	1758384.421	699998.142
1V 1375	17°12'21"	7.000	2.102	1.059	3S 3360	180°00'00"	0.750	2.356	NA	1310	1758412.870	699874.890	1705	1758410.650	700021.269	2235	1758394.474	699884.415	3135	1758376.831	699853.919	3510	1758387.583	699998.032
1W 1385	56°14'50"	2.000	1.963	1.069	3T 3385																			

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NOTE:
SEE SHEET C5 FOR CURVE AND COORDINATE DATA

LEGEND

- 3380 COORDINATE DATA NODE
- 3S CURVE DATA NODE
- △ CITY MONUMENT WELL



BOYLE
ENGINEERING CORPORATION

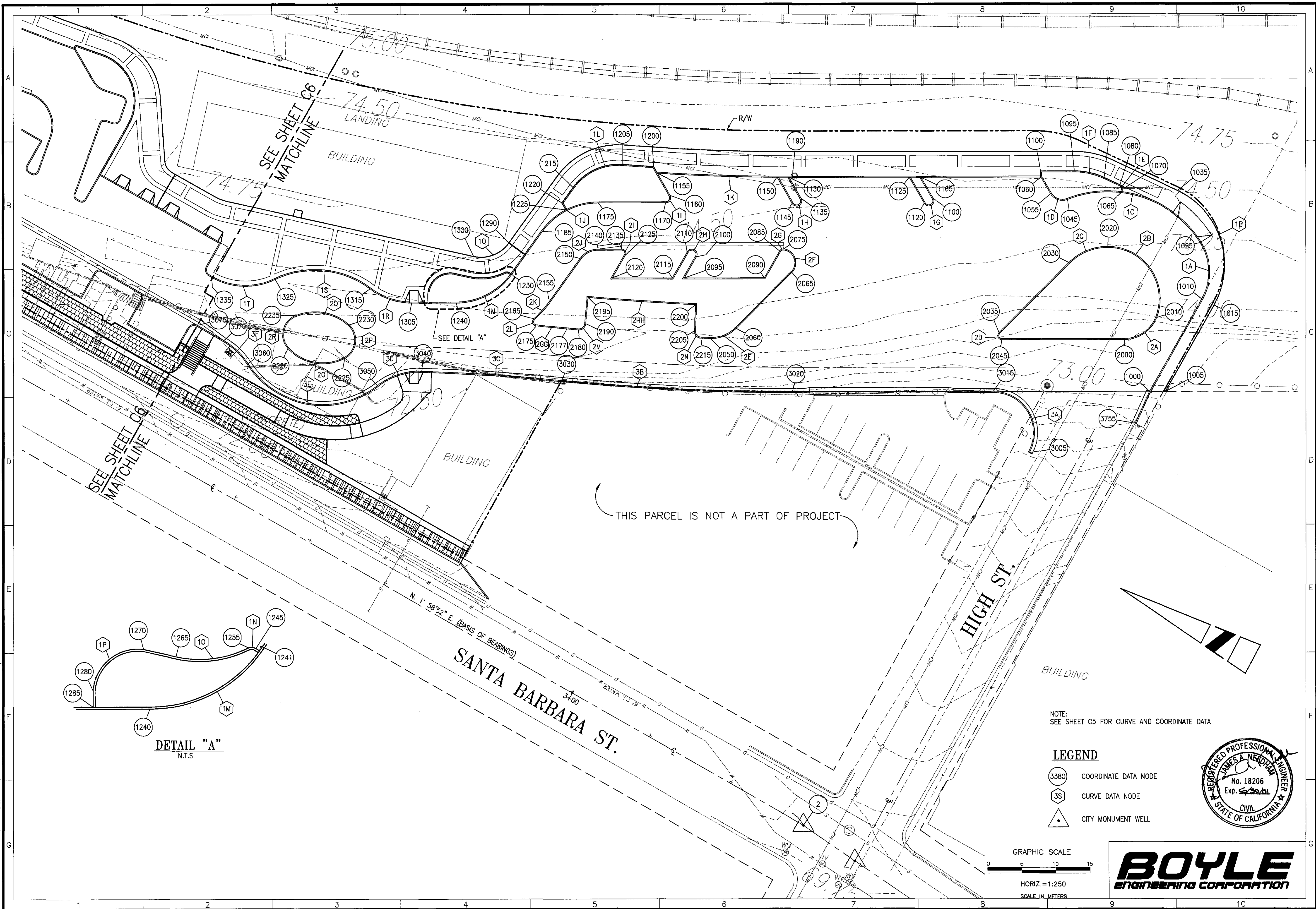
city of
san luis obispo

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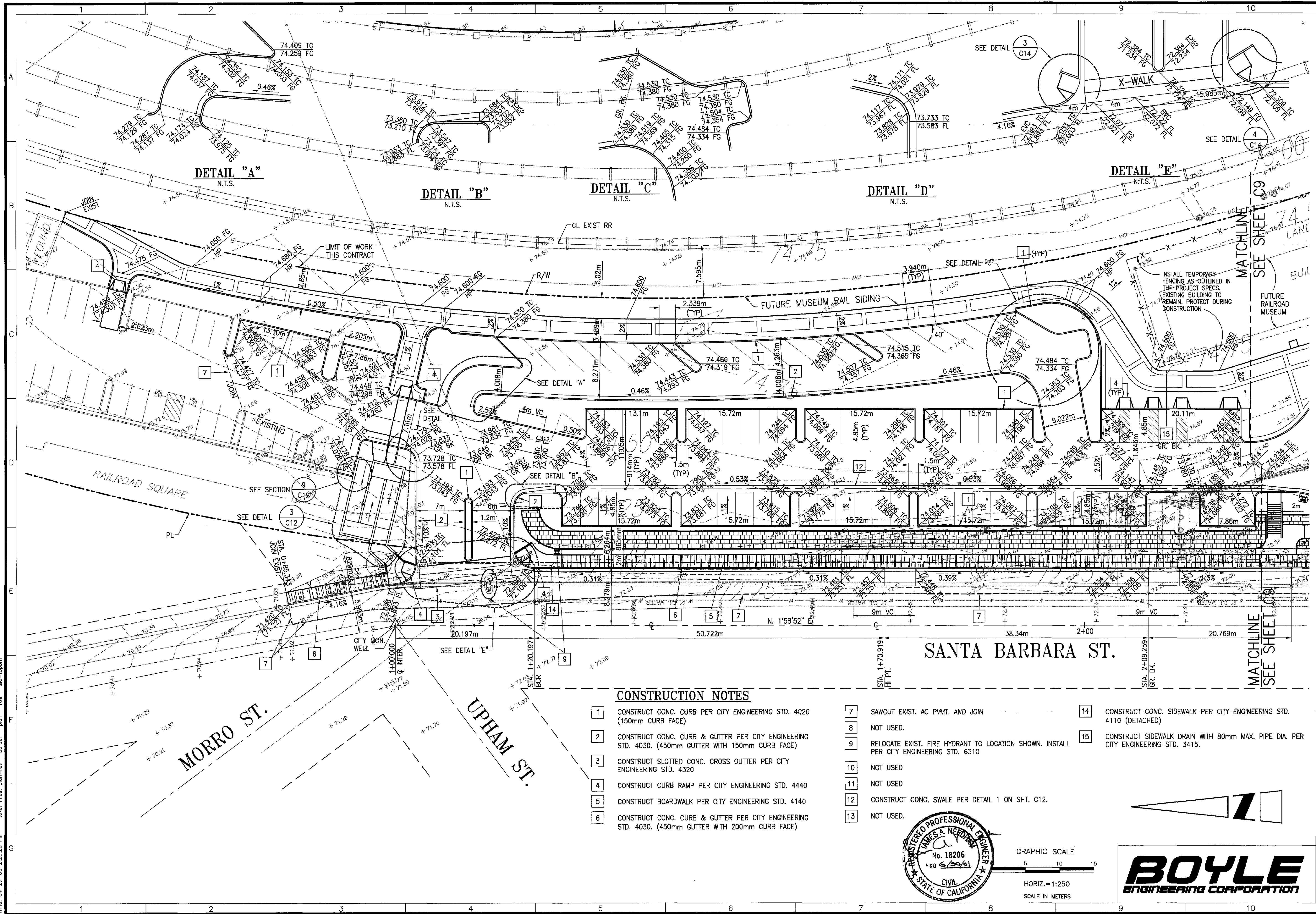
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SHEET TITLE:
HORIZONTAL CONTROL PLAN

DESIGNED BY:
AJR/JMT
DRAWN BY:
AJR
CHECKED BY:
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C6

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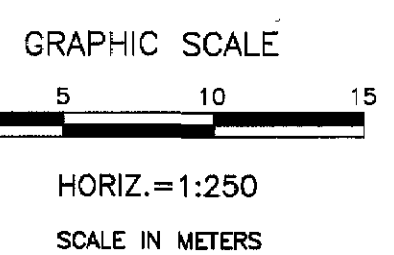


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CONSTRUCTION NOTES

- | | | | | | |
|---|---|----|--|----|---|
| 1 | CONSTRUCT CONC. CURB PER CITY ENGINEERING STD. 4020 (150mm CURB FACE) | 7 | SAWCUT EXIST. AC PYMT. AND JOIN | 14 | CONSTRUCT CONC. SIDEWALK PER CITY ENGINEERING STD. 4110 (DETACHED) |
| 2 | CONSTRUCT CONC. CURB & GUTTER PER CITY ENGINEERING STD. 4030. (450mm GUTTER WITH 150mm CURB FACE) | 8 | NOT USED. | 15 | CONSTRUCT SIDEWALK DRAIN WITH 80mm MAX. PIPE DIA. PER CITY ENGINEERING STD. 3415. |
| 3 | CONSTRUCT SLOTTED CONC. CROSS GUTTER PER CITY ENGINEERING STD. 4320 | 9 | RELOCATE EXIST. FIRE HYDRANT TO LOCATION SHOWN. INSTALL PER CITY ENGINEERING STD. 6310 | | |
| 4 | CONSTRUCT CURB RAMP PER CITY ENGINEERING STD. 4440 | 10 | NOT USED | | |
| 5 | CONSTRUCT BOARDWALK PER CITY ENGINEERING STD. 4140 | 11 | NOT USED | | |
| 6 | CONSTRUCT CONC. CURB & GUTTER PER CITY ENGINEERING STD. 4030. (450mm GUTTER WITH 200mm CURB FACE) | 12 | CONSTRUCT CONC. SWALE PER DETAIL 1 ON SHT. C12. | | |
| | | 13 | NOT USED. | | |



BOYLE
ENGINEERING CORPORATION

city of
san luis obispo

PROJECT TITLE:
RAILROAD TRANSPORTATION CENTER

SHEET TITLE:
GRADING AND DRAINAGE

DESIGNED BY:
AJR/JMT

DRAWN BY:
AJR

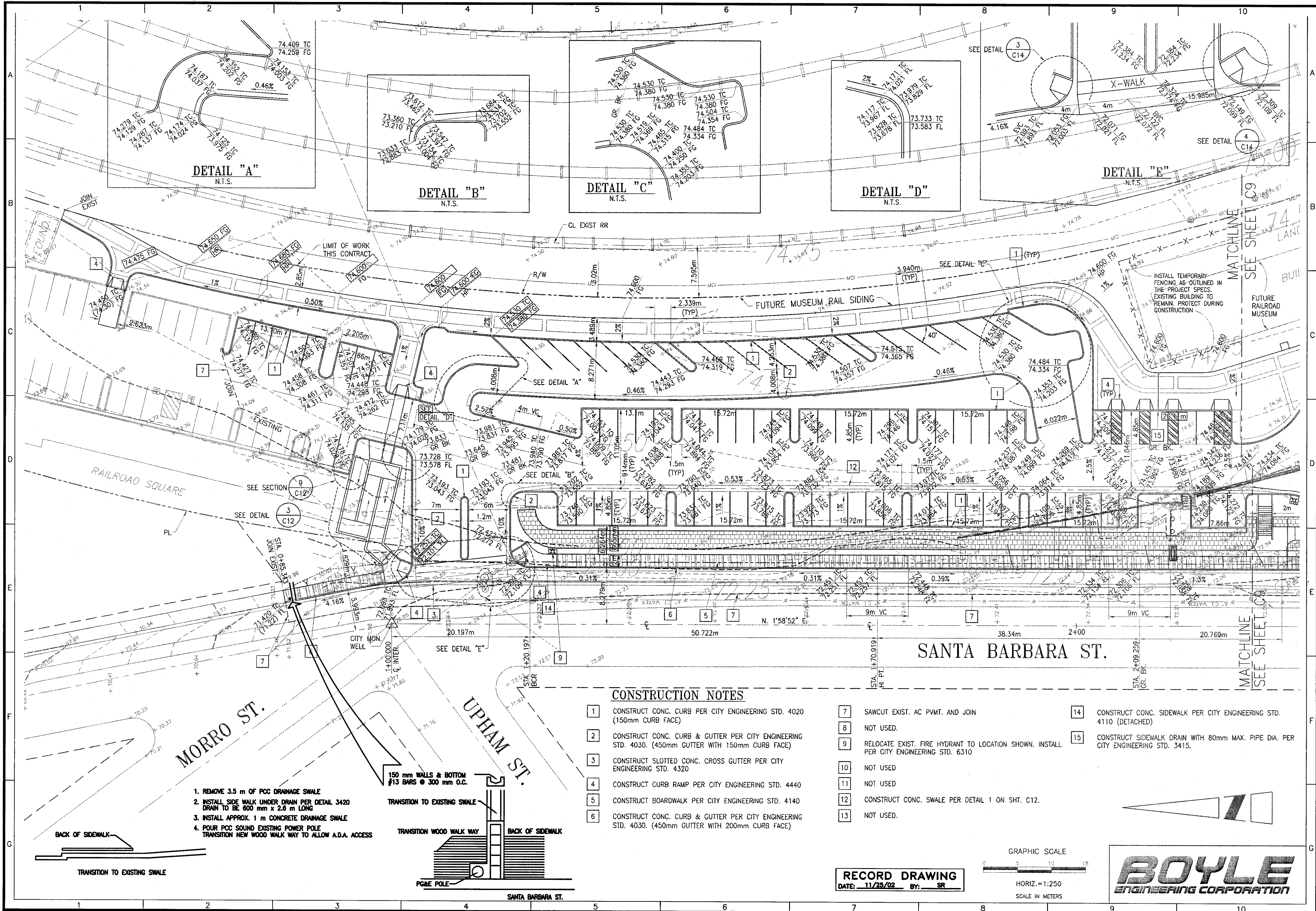
CHECKED BY:
JAN

APPROVED BY:
RLB

DATE:
04/28/00

CITY SPECIFICATION NO.
99059B

SHEET NO.
C8



CONSTRUCTION NOTES

1. CONSTRUCT CONC. CURB PER CITY ENGINEERING STD. 4020 (150mm CURB FACE)
2. CONSTRUCT CONC. CURB & GUTTER PER CITY ENGINEERING STD. 4030. (450mm GUTTER WITH 150mm CURB FACE)
3. CONSTRUCT SLOTTED CONC. CROSS GUTTER PER CITY ENGINEERING STD. 4320
4. CONSTRUCT CURB RAMP PER CITY ENGINEERING STD. 4440
5. CONSTRUCT BOARDWALK PER CITY ENGINEERING STD. 4140
6. CONSTRUCT CONC. CURB & GUTTER PER CITY ENGINEERING STD. 4030. (450mm GUTTER WITH 200mm CURB FACE)
7. SAWCUT EXIST. AC PVMT. AND JOIN
8. NOT USED.
9. RELOCATE EXIST. FIRE HYDRANT TO LOCATION SHOWN. INSTALL PER CITY ENGINEERING STD. 6310
10. NOT USED
11. NOT USED
12. CONSTRUCT CONC. SWALE PER DETAIL 1 ON SHT. C12.
13. NOT USED.
14. CONSTRUCT CONC. SIDEWALK PER CITY ENGINEERING STD. 4110 (DETACHED)
15. CONSTRUCT SIDEWALK DRAIN WITH 80mm MAX. PIPE DIA. PER CITY ENGINEERING STD. 3415.

GRAPHIC SCALE

0 5 10 15

HORIZ. = 1:250

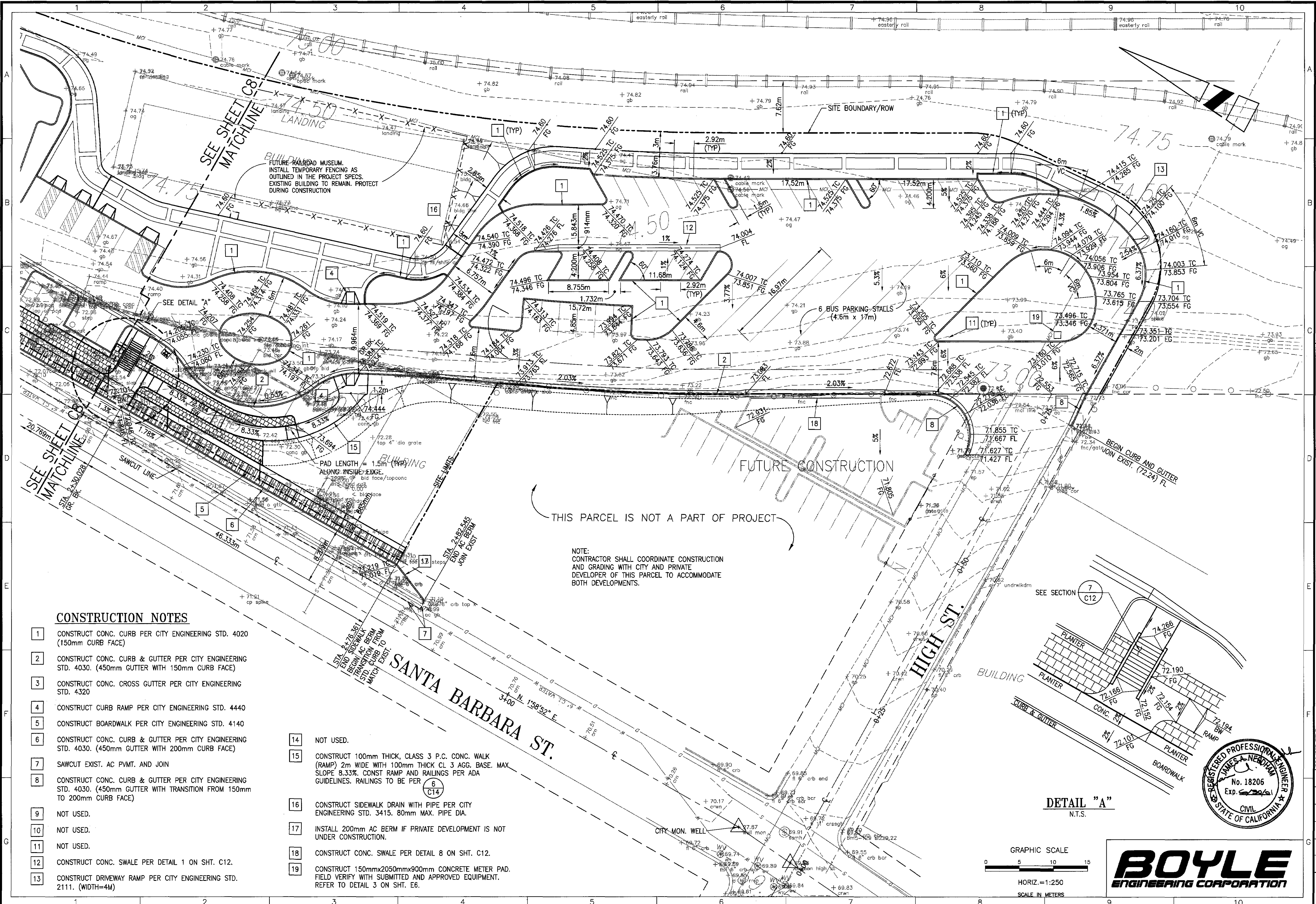
SCALE IN METERS

RECORD DRAWING

DATE: 11/25/02 BY: SR

BOYLE
ENGINEERING CORPORATION

DWG: H:\Needham\0550003\Road\civil\c-09 User: drchines Date: 03-12-00 10:29:57 AM Xref: Files: Plan-res Border Print Job #: V156550003

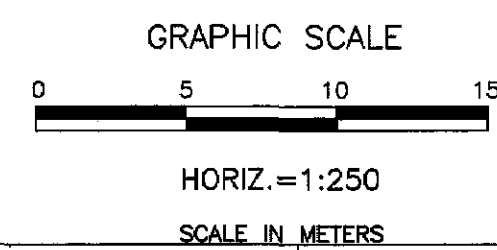


CONSTRUCTION NOTES

- 1 CONSTRUCT CONC. CURB PER CITY ENGINEERING STD. 4020 (150mm CURB FACE)
- 2 CONSTRUCT CONC. CURB & GUTTER PER CITY ENGINEERING STD. 4030. (450mm GUTTER WITH 150mm CURB FACE)
- 3 CONSTRUCT CONC. CROSS GUTTER PER CITY ENGINEERING STD. 4320
- 4 CONSTRUCT CURB RAMP PER CITY ENGINEERING STD. 4440
- 5 CONSTRUCT BOARDWALK PER CITY ENGINEERING STD. 4140
- 6 CONSTRUCT CONC. CURB & GUTTER PER CITY ENGINEERING STD. 4030. (450mm GUTTER WITH 200mm CURB FACE)
- 7 SAWCUT EXIST. AC PVT. AND JOIN
- 8 CONSTRUCT CONC. CURB & GUTTER PER CITY ENGINEERING STD. 4030. (450mm GUTTER WITH TRANSITION FROM 150mm TO 200mm CURB FACE)
- 9 NOT USED.
- 10 NOT USED.
- 11 NOT USED.
- 12 CONSTRUCT CONC. SWALE PER DETAIL 1 ON SHT. C12.
- 13 CONSTRUCT DRIVEWAY RAMP PER CITY ENGINEERING STD. 2111. (WIDTH=4M)

- 14 NOT USED.
- 15 CONSTRUCT 100mm THICK, CLASS 3 P.C. CONC. WALK (RAMP) 2m WIDE WITH 100mm THICK CL 3 AGG. BASE. MAX. SLOPE 8.33%. CONST RAMP AND RAILINGS PER ADA GUIDELINES. RAILINGS TO BE PER C14
- 16 CONSTRUCT SIDEWALK DRAIN WITH PIPE PER CITY ENGINEERING STD. 3415. 80mm MAX. PIPE DIA.
- 17 INSTALL 200mm AC BERM IF PRIVATE DEVELOPMENT IS NOT UNDER CONSTRUCTION.
- 18 CONSTRUCT CONC. SWALE PER DETAIL 8 ON SHT. C12.
- 19 CONSTRUCT 150mmx2050mmx900mm CONCRETE METER PAD. FIELD VERIFY WITH SUBMITTED AND APPROVED EQUIPMENT. REFER TO DETAIL 3 ON SHT. E6.

DETAIL "A"
N.T.S.



BOYLE
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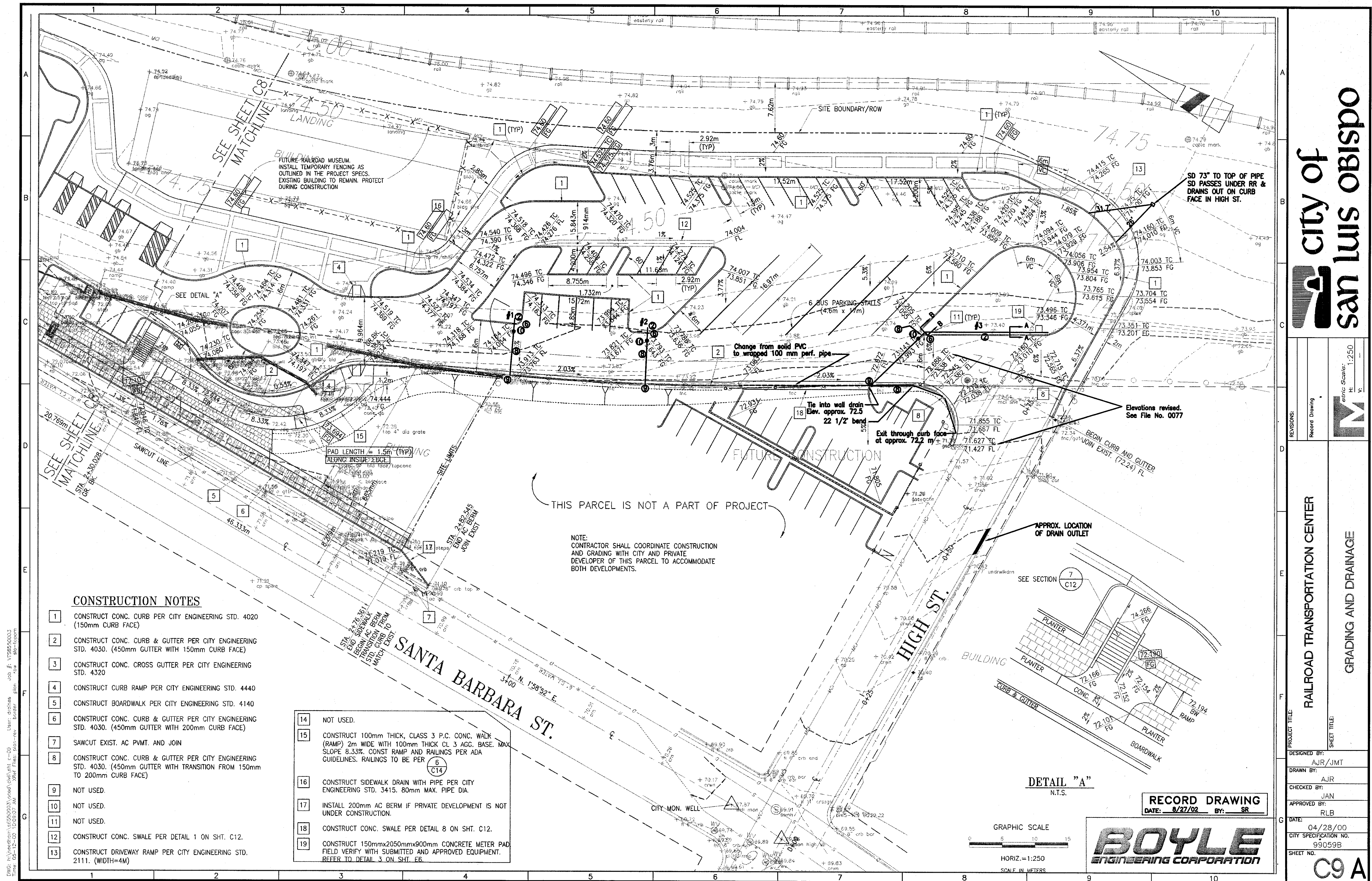


city of
san luis obispo

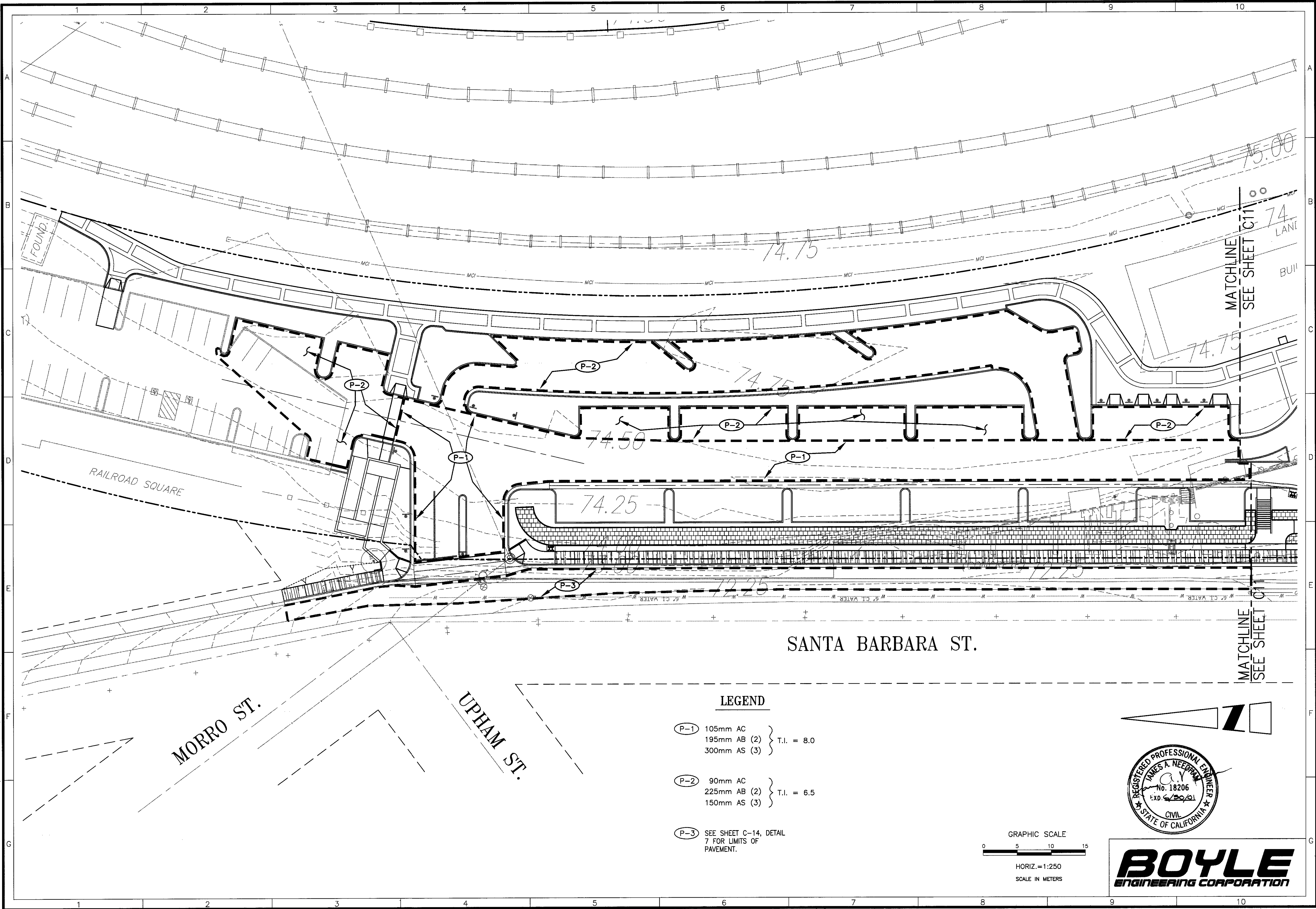
RAILROAD TRANSPORTATION CENTER

GRADING AND DRAINAGE

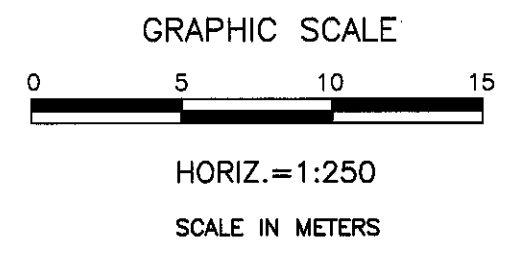
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DRAWN BY: AJR
CHECKED BY: JAN
APPROVED BY: RLB
DATE: 04/28/00
CITY SPECIFICATION NO. 99059B
SHEET NO. C9



DWG: H:\readham\6550003\road\civil\shd c-10 User: frizzo
Time: 04-27-00 2:27:43 PM XRef Files: plan-rev border plan row aio-topom



- LEGEND**
- P-1 105mm AC
195mm AB (2)
300mm AS (3) } T.I. = 8.0
 - P-2 90mm AC
225mm AB (2)
150mm AS (3) } T.I. = 6.5
 - P-3 SEE SHEET C-14, DETAIL
7 FOR LIMITS OF
PAVEMENT.

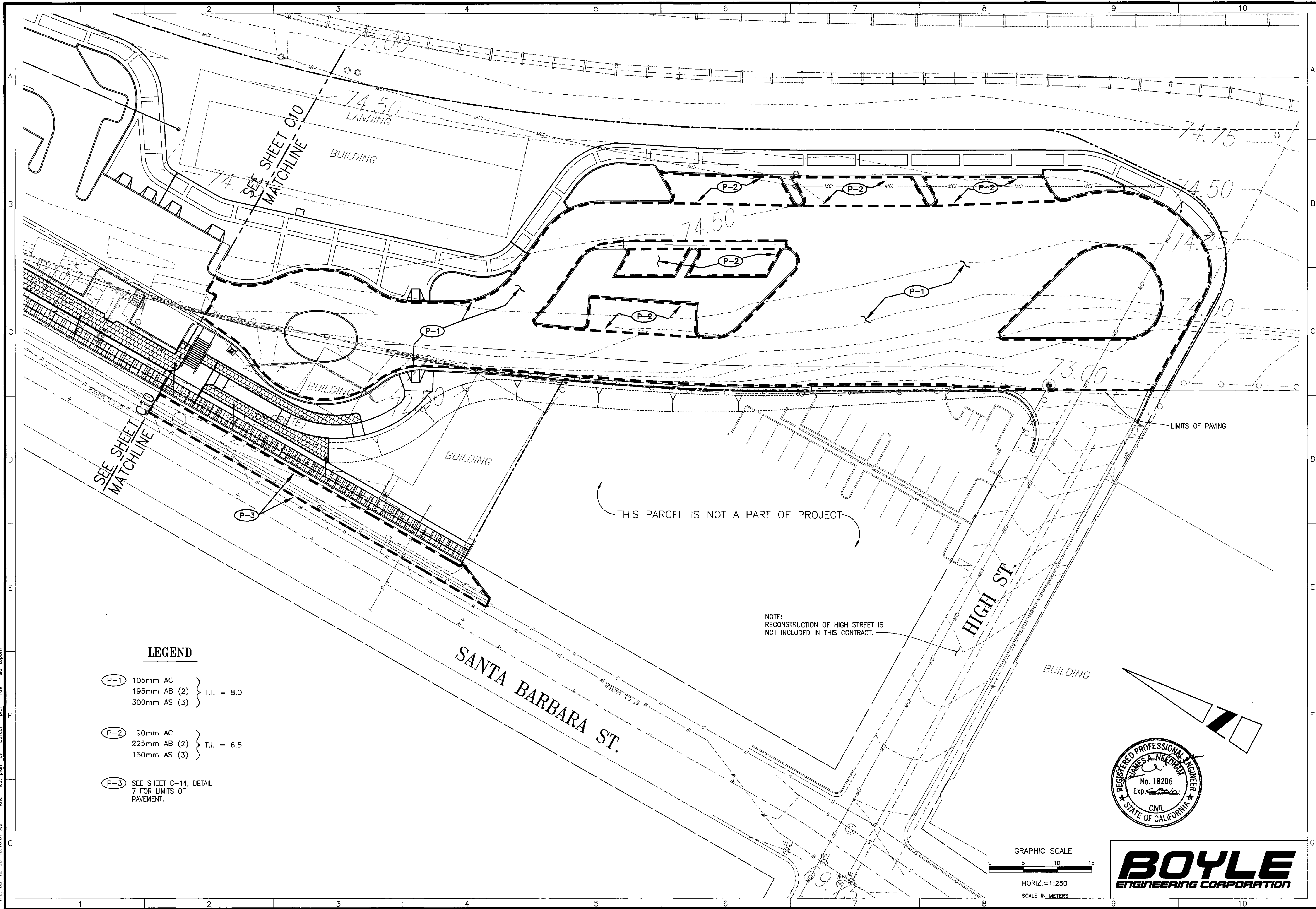


BOYLE
ENGINEERING CORPORATION

city of
san luis obispo

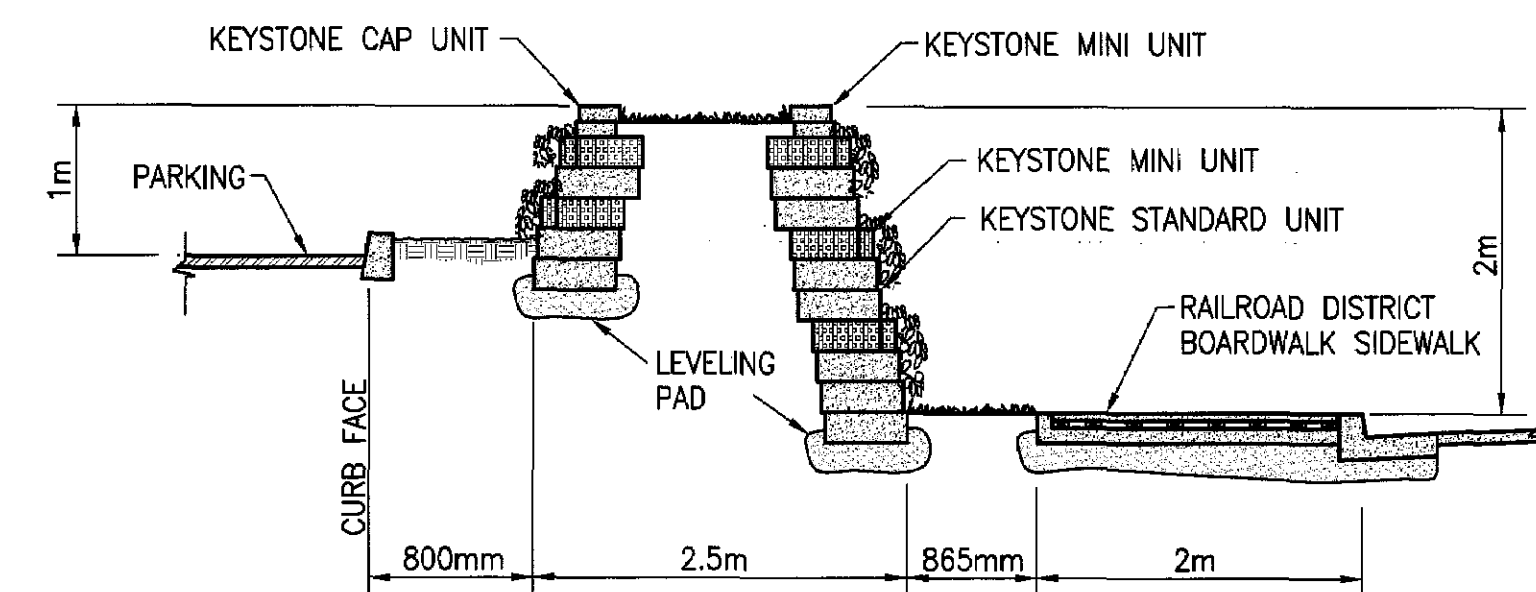
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DESIGNED BY: AJR/JMT		
DRAWN BY: AJR		
CHECKED BY: JAN		
APPROVED BY: RLB		
DATE: 04/28/00		
CITY SPECIFICATION NO. 99059B		
SHEET NO. C10		

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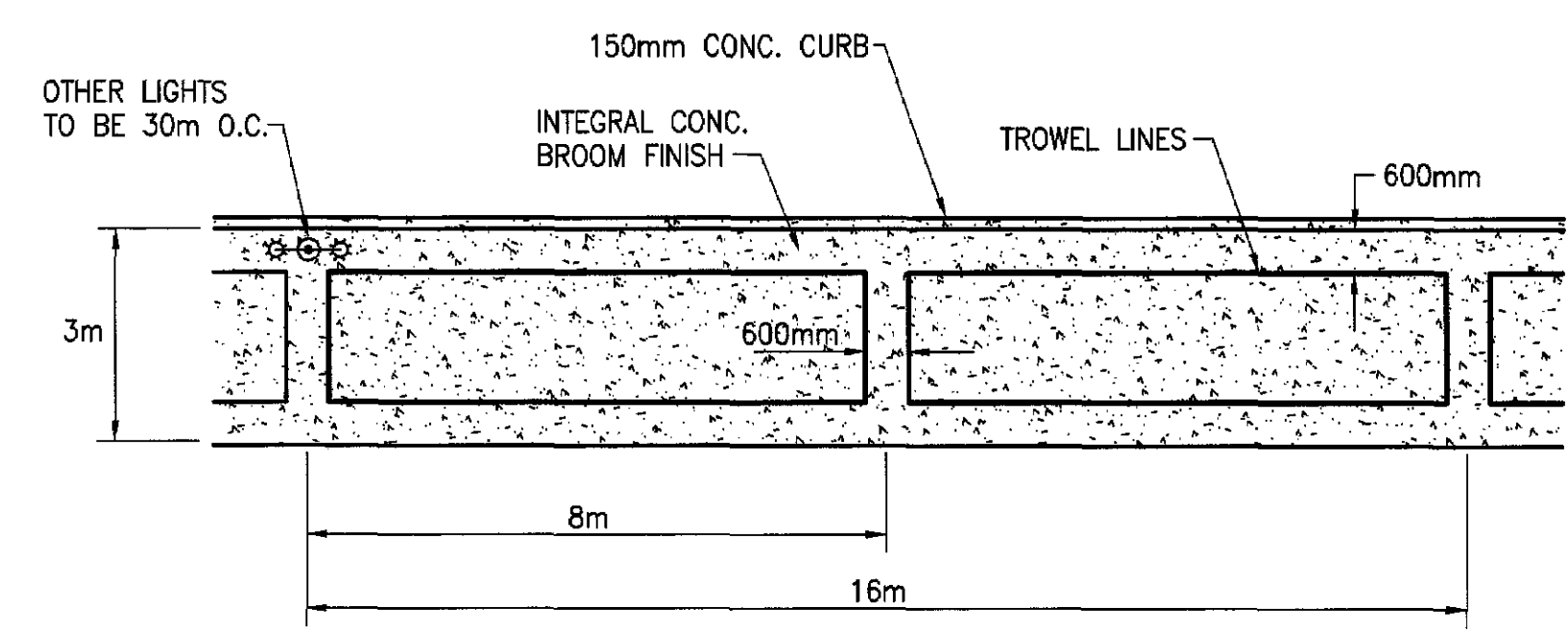




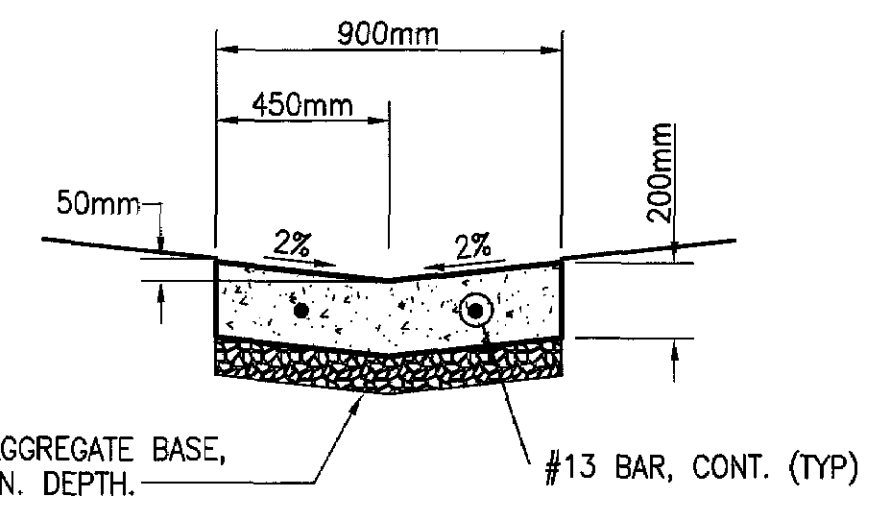
BOYLE
 ENGINEERING CORPORATION



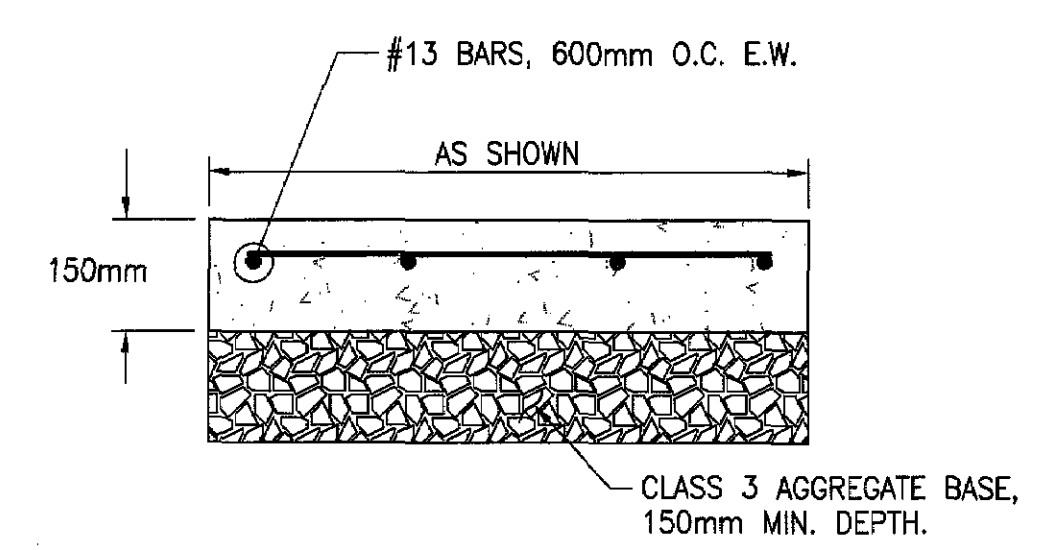
KEYSTONE WALL SECTION 3
 SCALE: 1:50



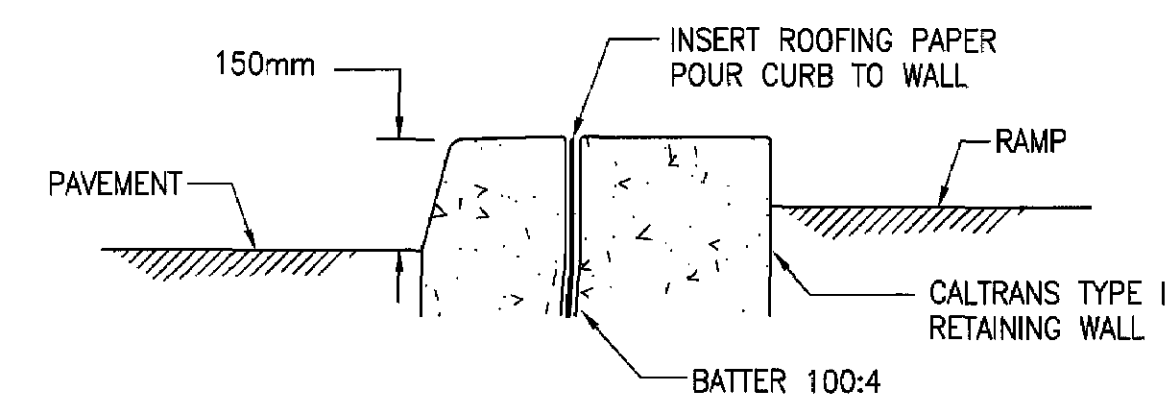
INTEGRAL COLOR PAVING 2
 SCALE: 1:10



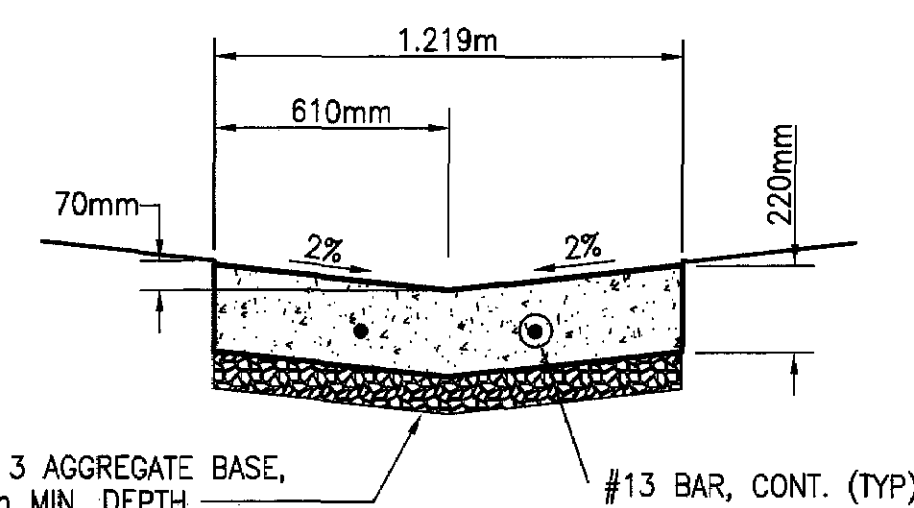
CONCRETE SWALE 1
 SCALE: 1:20



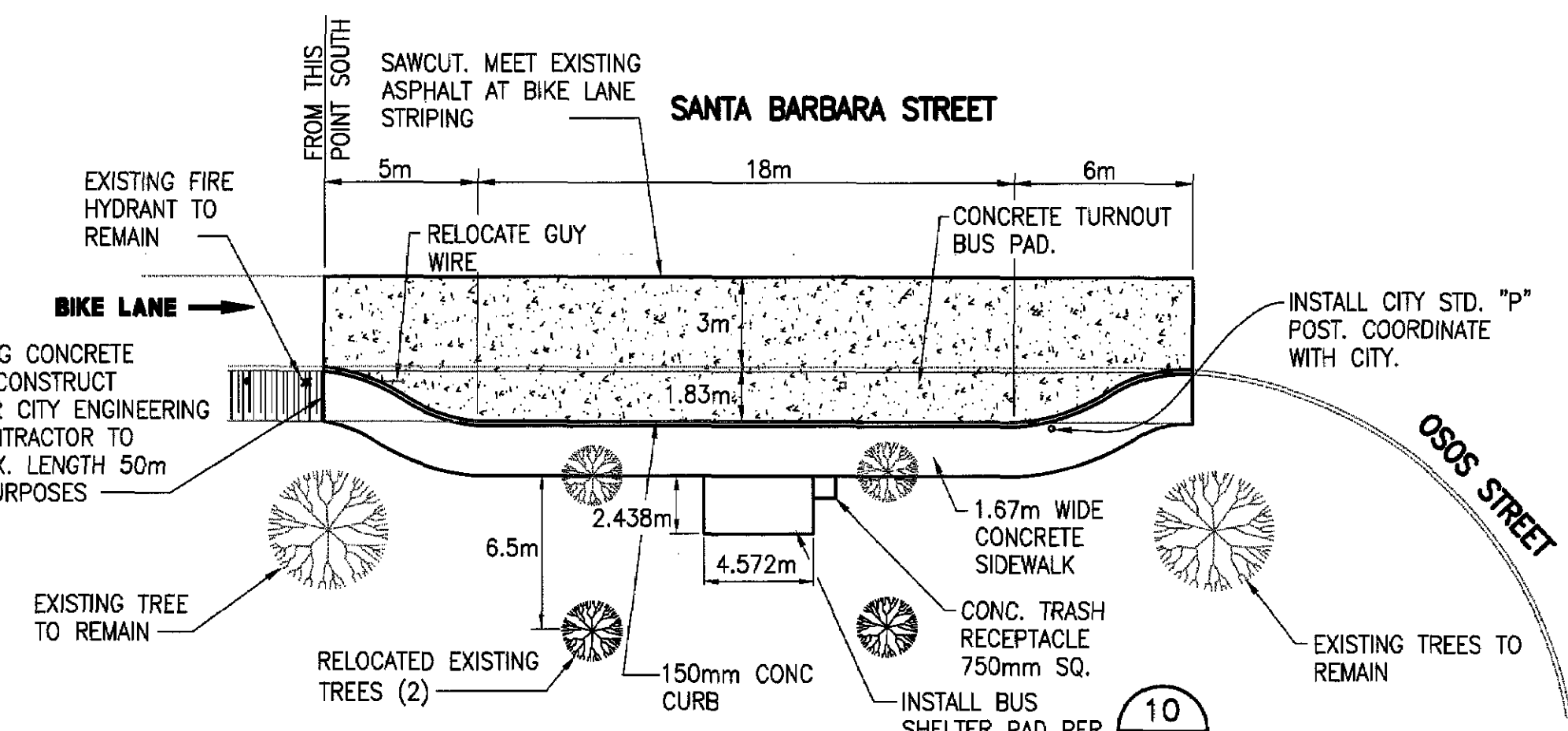
BUS SHELTER AND TRASH RECEPTACLE PAD 10
 NOT TO SCALE



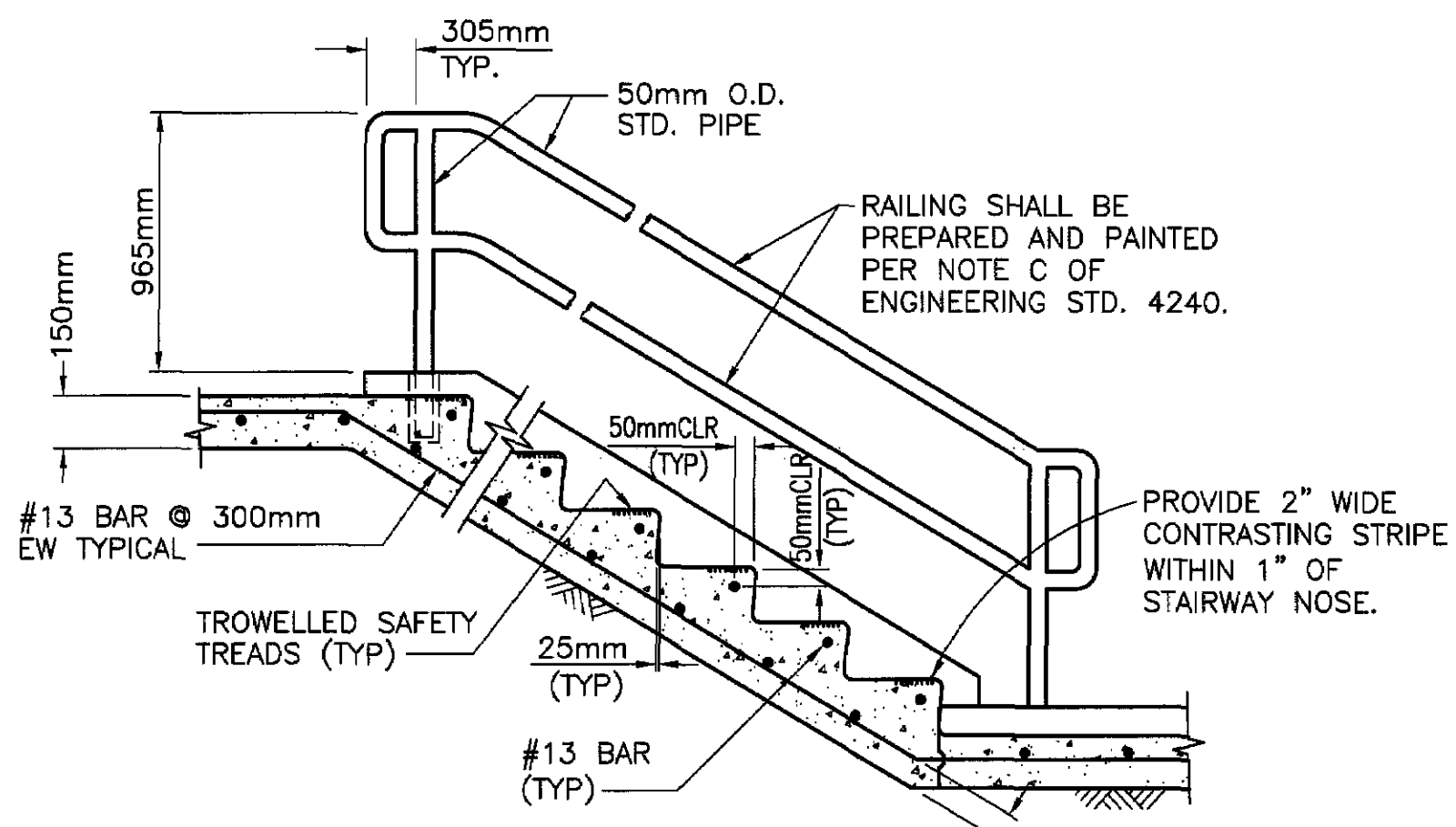
CONCRETE CURB 9
 SCALE: 1:10



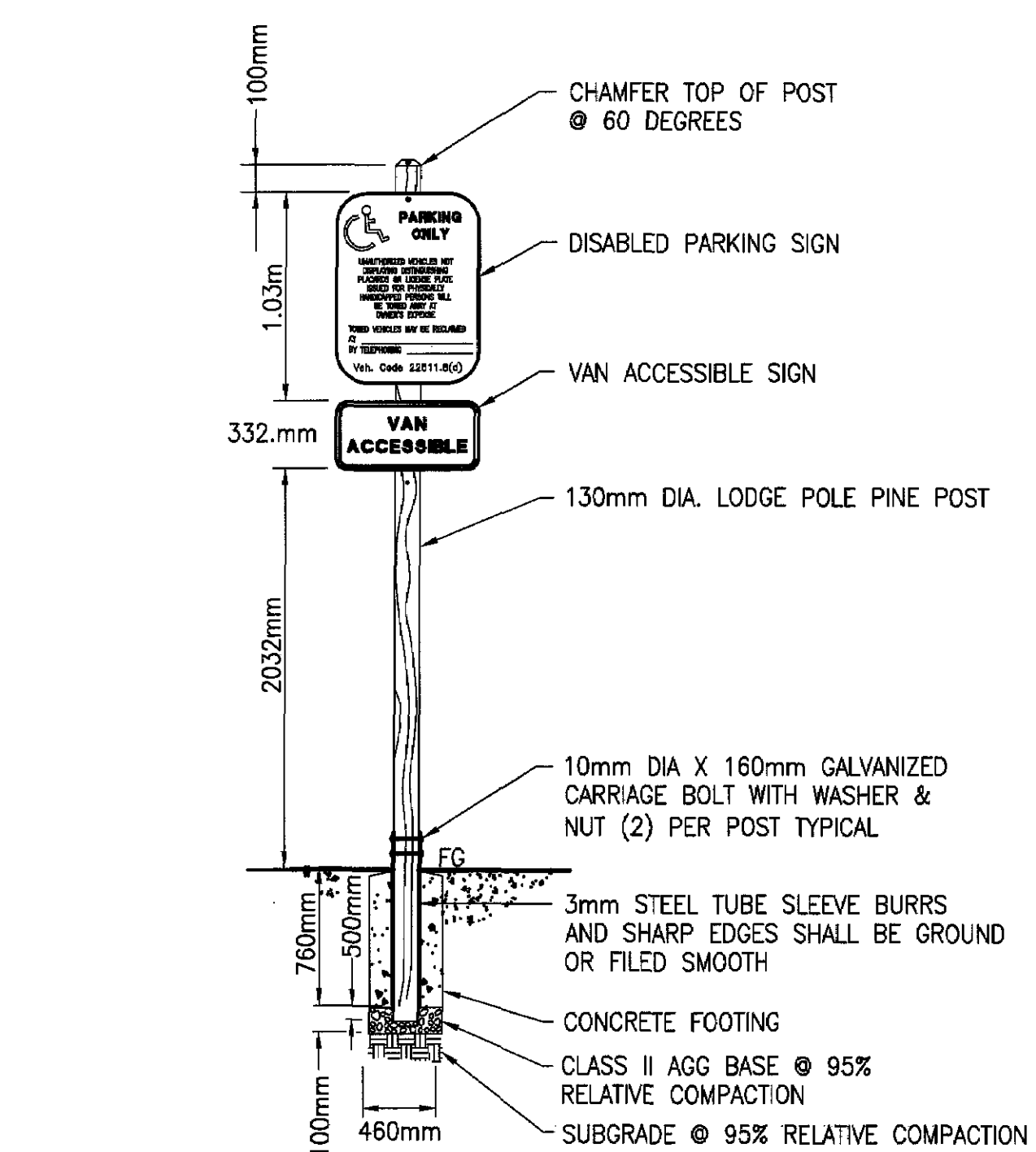
CONCRETE SWALE 8
 SCALE: 1:20



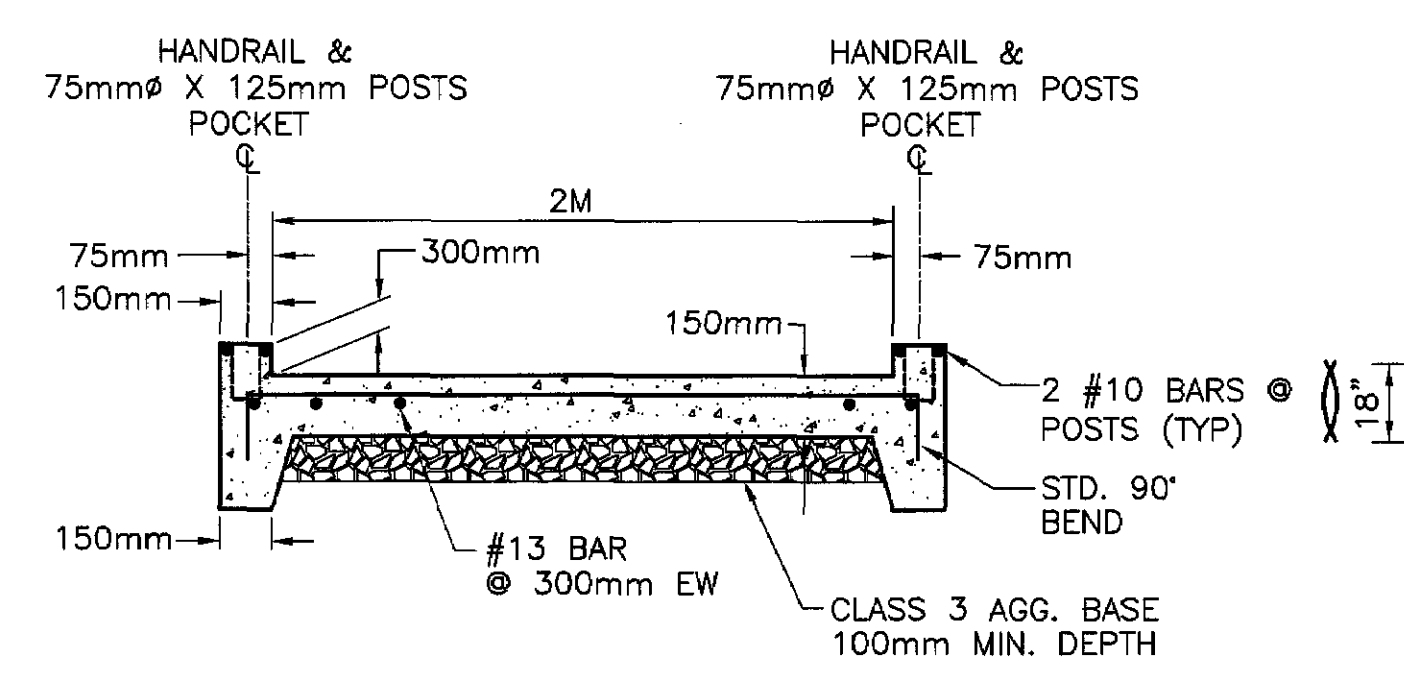
SANTA BARBARA STREET BUS TURNOUT 5
 SCALE: 1:20



SECTION CONCRETE STAIRS 7
 N.T.S.



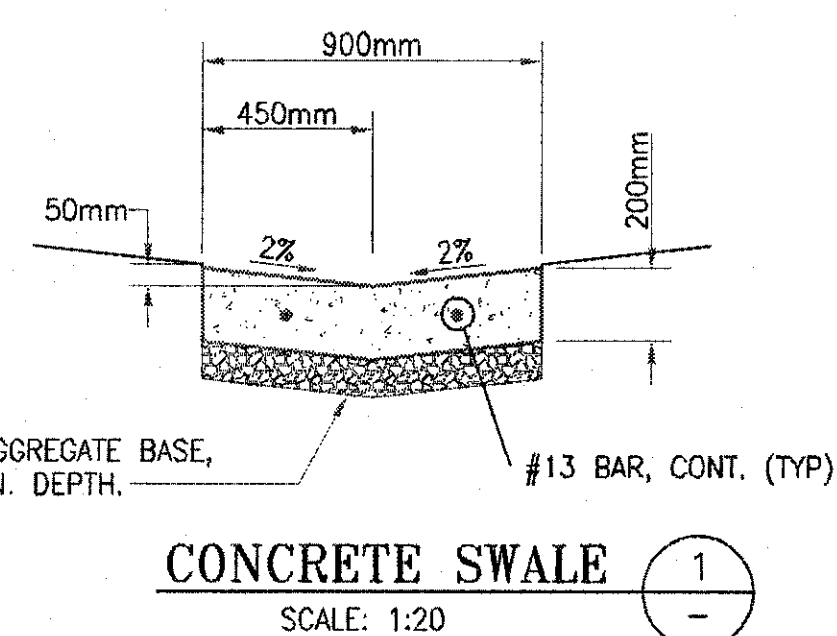
ACCESSIBLE PARKING SIGN 4
 NOT TO SCALE



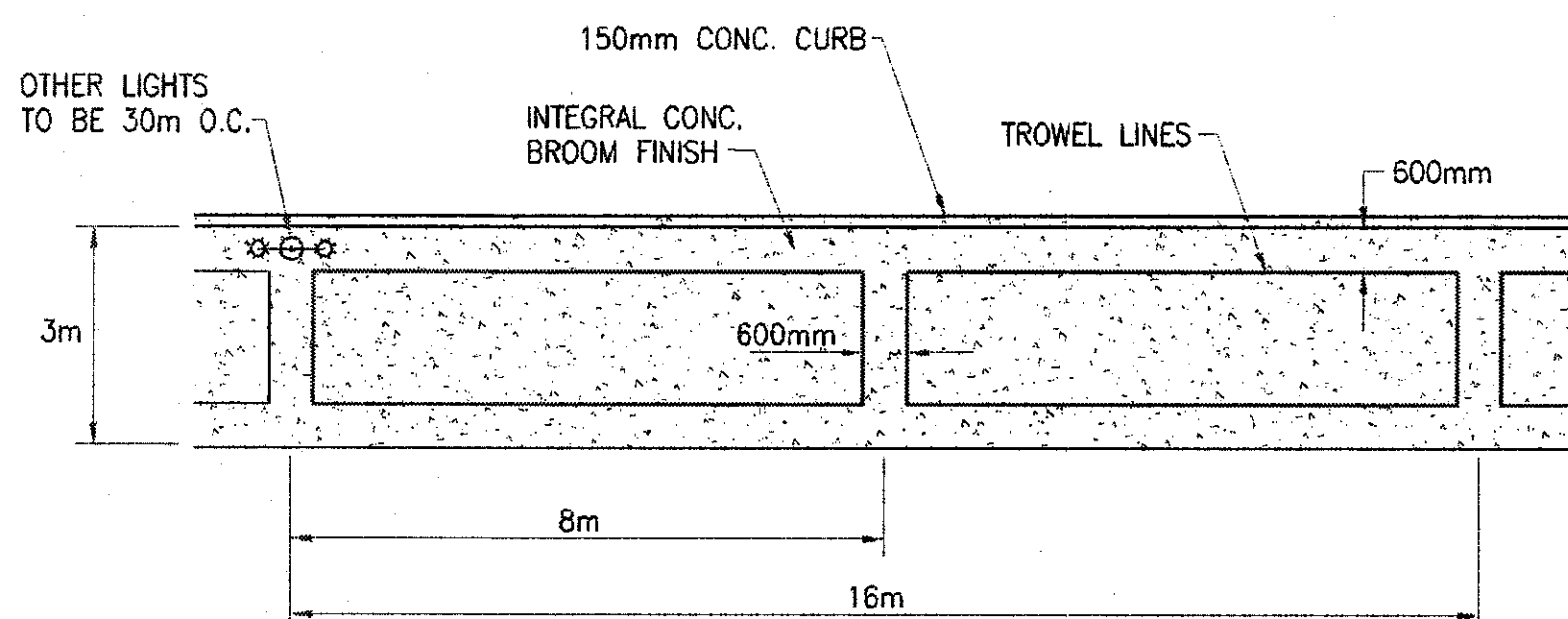
SECTION STAIRWAY 6
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 Job #: VTS0550003
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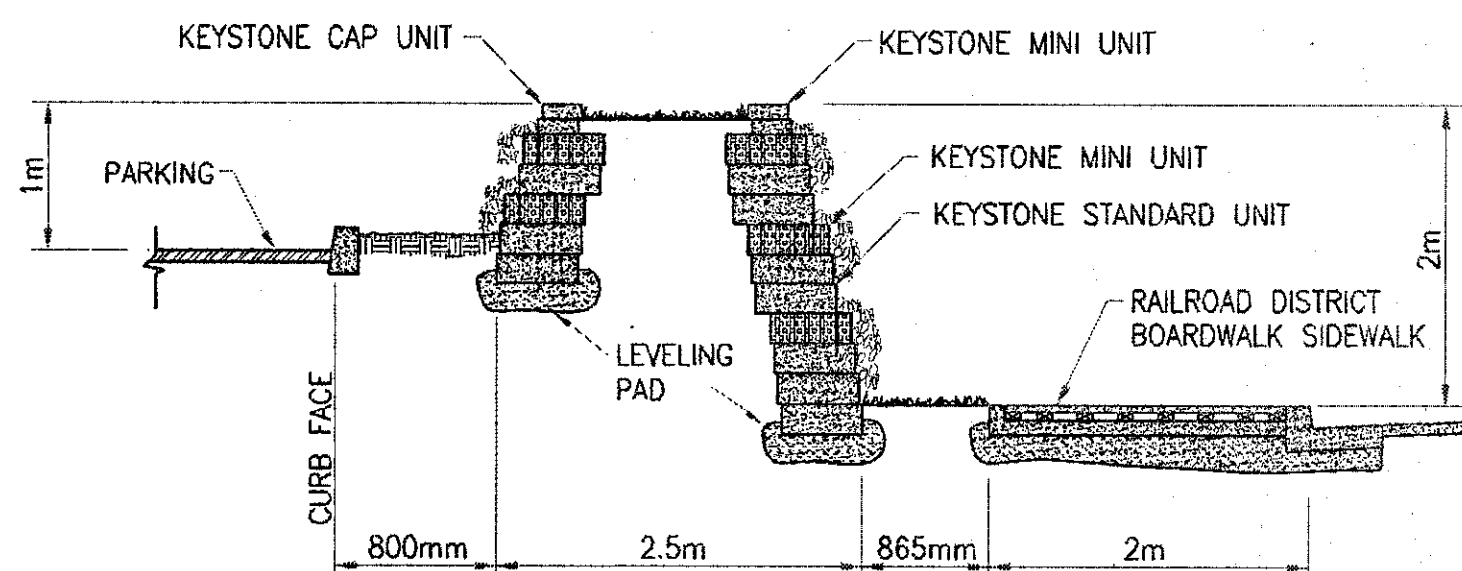


CONCRETE SWALE 1
SCALE: 1:20



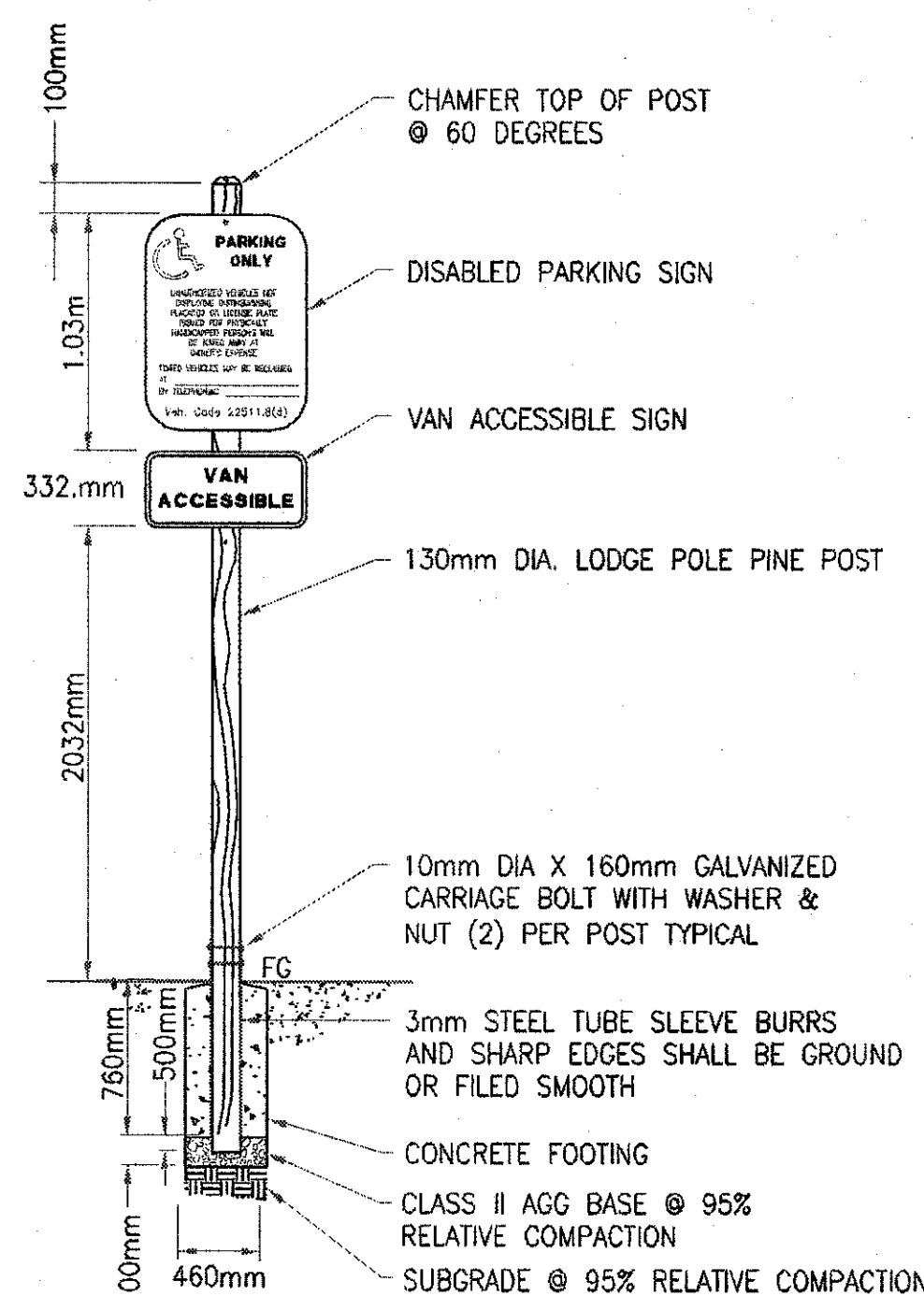
- NOTES:
1. CONSTRUCT CONCRETE SIDEWALK PER CITY STD. DETAIL 4110 (INTEGRAL) COLOR SHALL BE SCHOFIELD #C32 QUARRY RED OR APPROVED EQUAL.

INTEGRAL COLOR PAVING 2
SCALE: 1:10



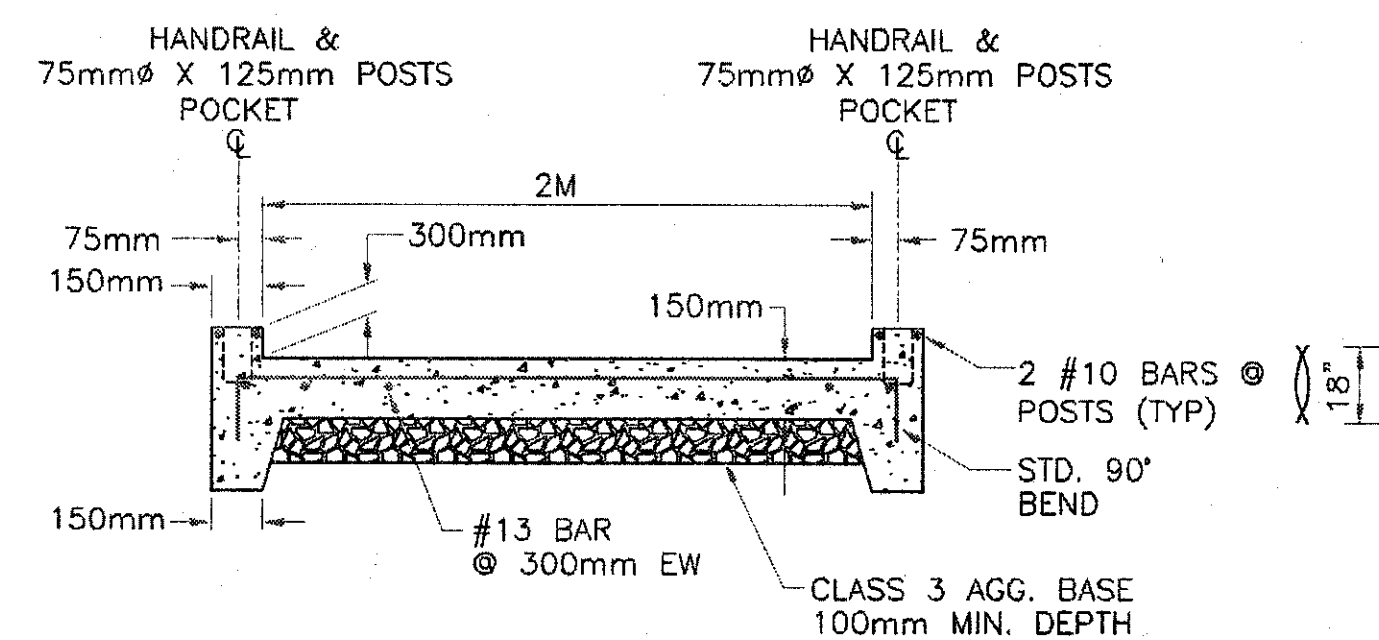
ALLEN BLOCK TYP.

KEYSTONE WALL SECTION 3
SCALE: 1:50
WALLS ARE 400 mm THICK

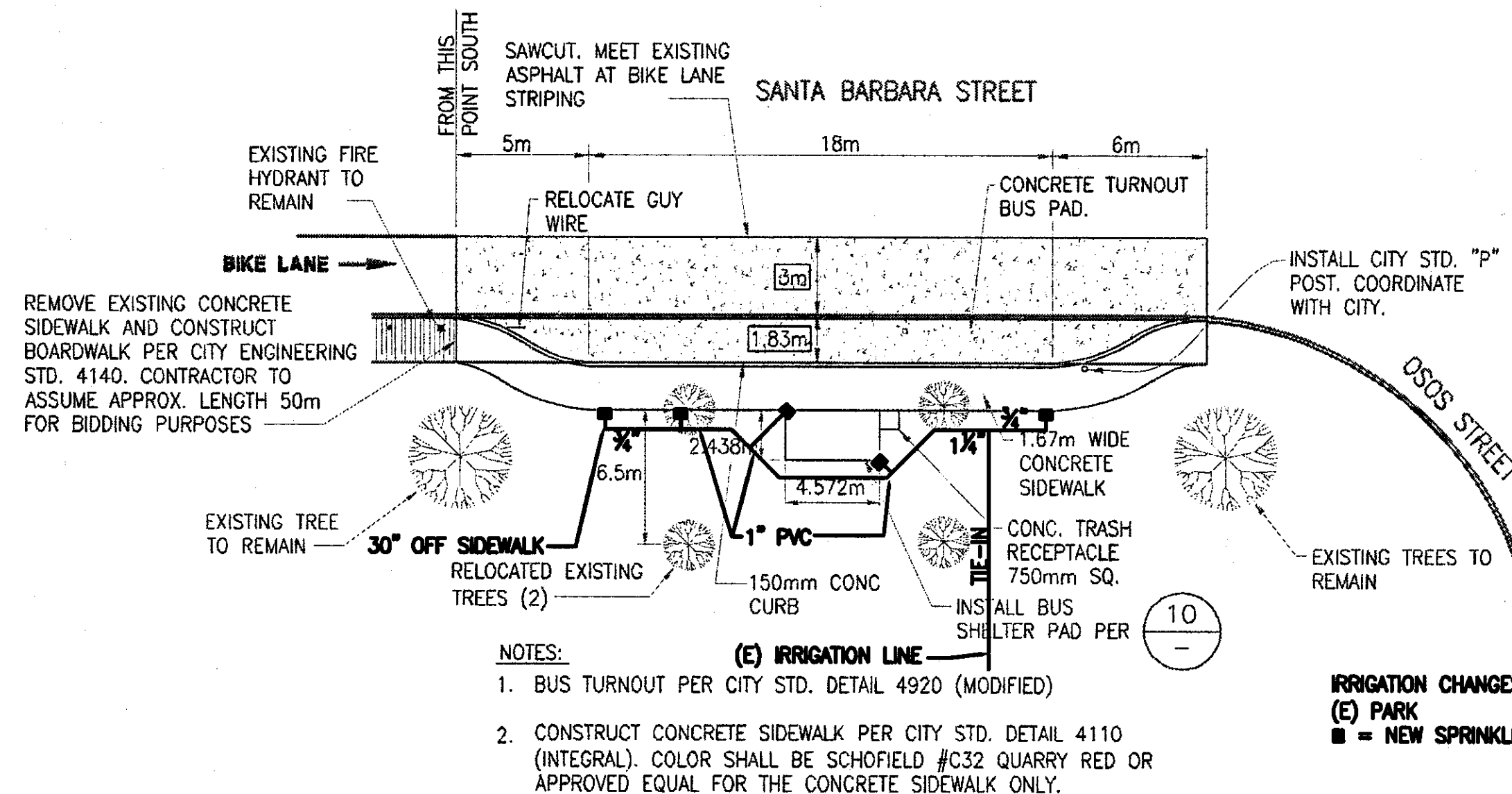


NOTE: SIGN POSTS SHALL BE 760mm BEHIND CURB FACE.

ACCESSIBLE PARKING SIGN 4
NOT TO SCALE

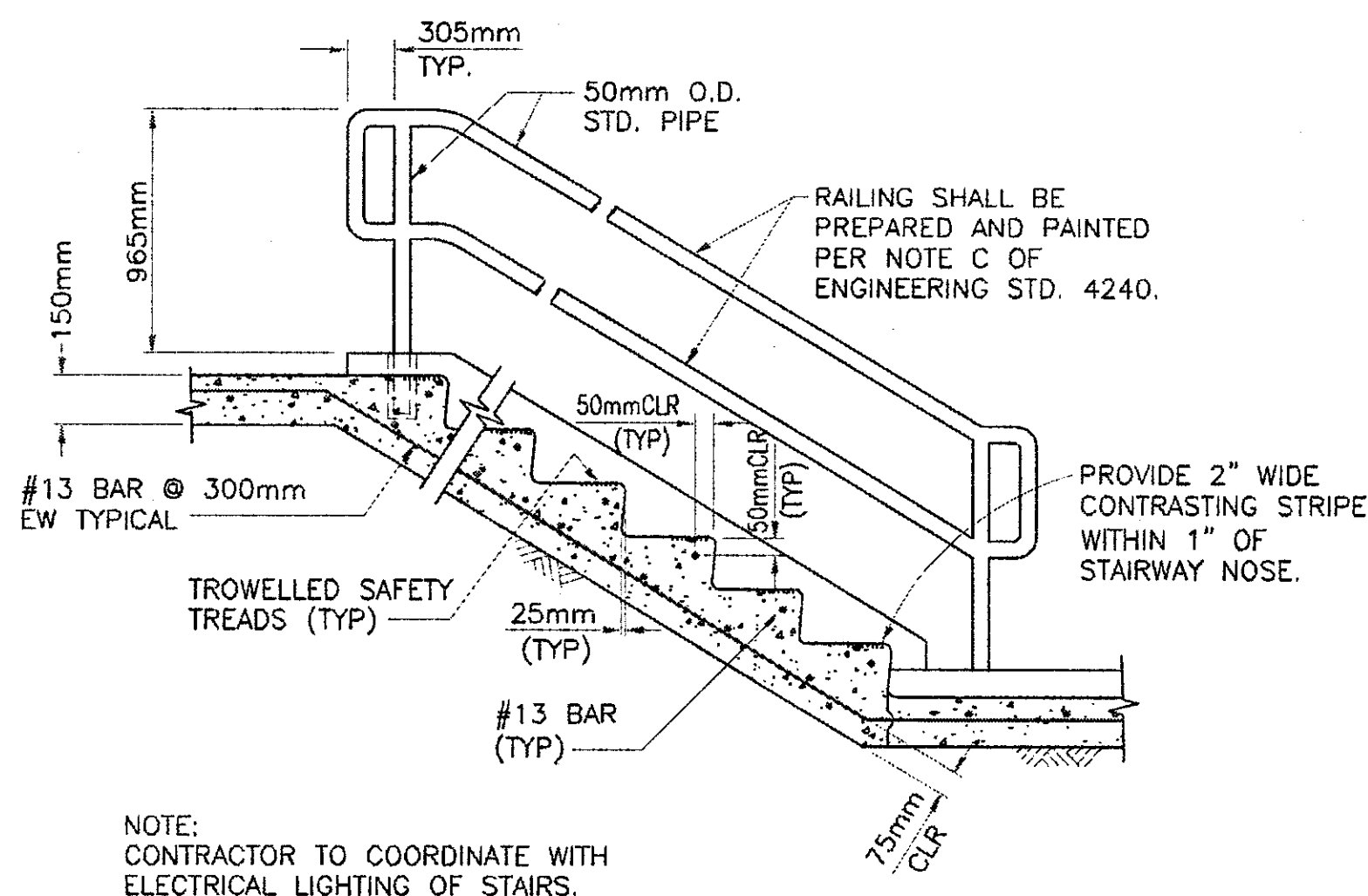


SECTION STAIRWAY 6
N.T.S.

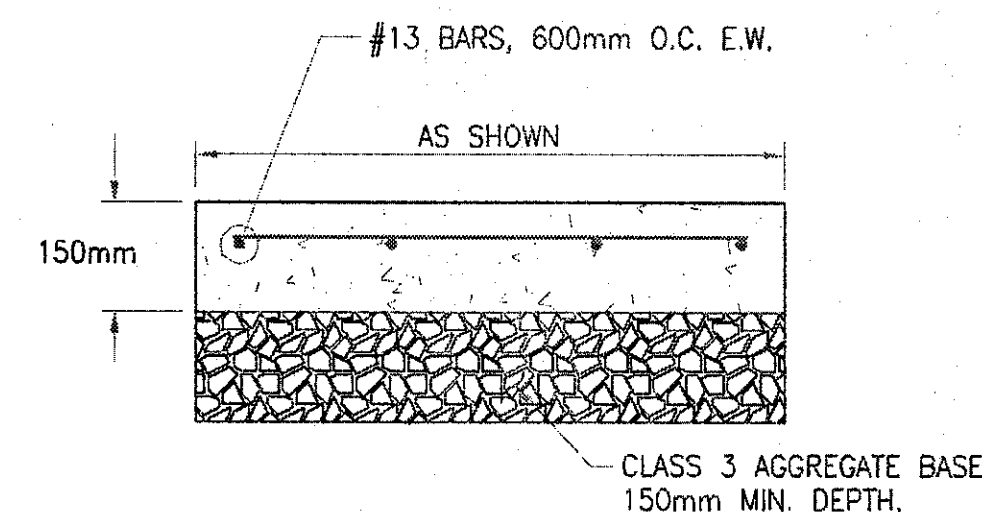


- NOTES:
1. BUS TURNOUT PER CITY STD. DETAIL 4920 (MODIFIED)
 2. CONSTRUCT CONCRETE SIDEWALK PER CITY STD. DETAIL 4110 (INTEGRAL). COLOR SHALL BE SCHOFIELD #C32 QUARRY RED OR APPROVED EQUAL FOR THE CONCRETE SIDEWALK ONLY.

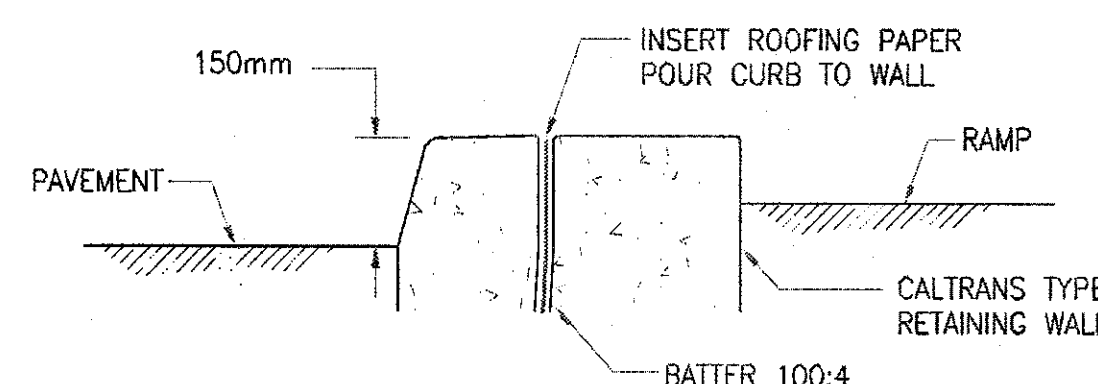
SANTA BARBARA STREET BUS TURNOUT 5
SCALE: 1:20



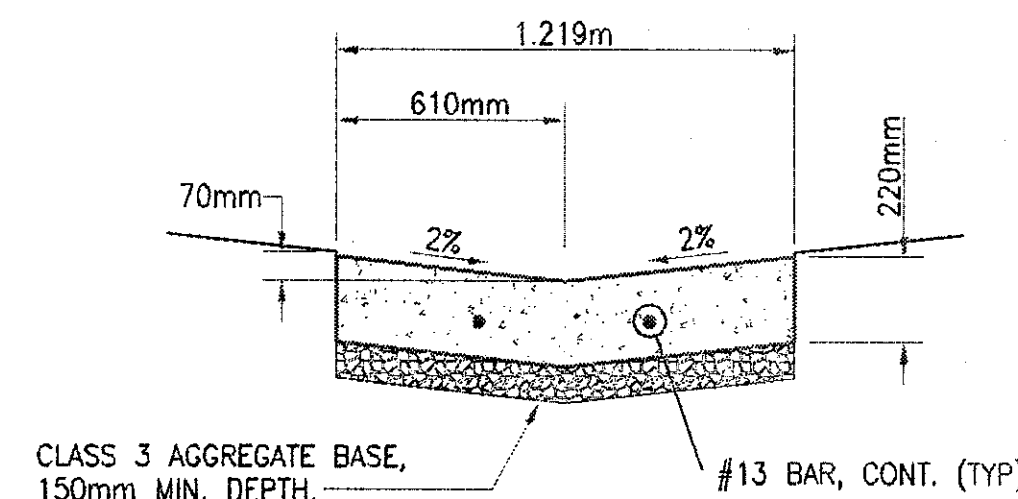
SECTION CONCRETE STAIRS 7
N.T.S.



BUS SHELTER AND TRASH RECEPTACLE PAD 10
NOT TO SCALE



CONCRETE CURB 9
SCALE: 1:10



CONCRETE SWALE 8
SCALE: 1:20

RECORD DRAWING
DATE: 8/27/02 BY: SR

BOYLE
ENGINEERING CORPORATION

city of
san luis obispo

REVISIONS:
Record Drawing
Scale: 250
H
V

RAILROAD TRANSPORTATION CENTER

CONSTRUCTION DETAILS

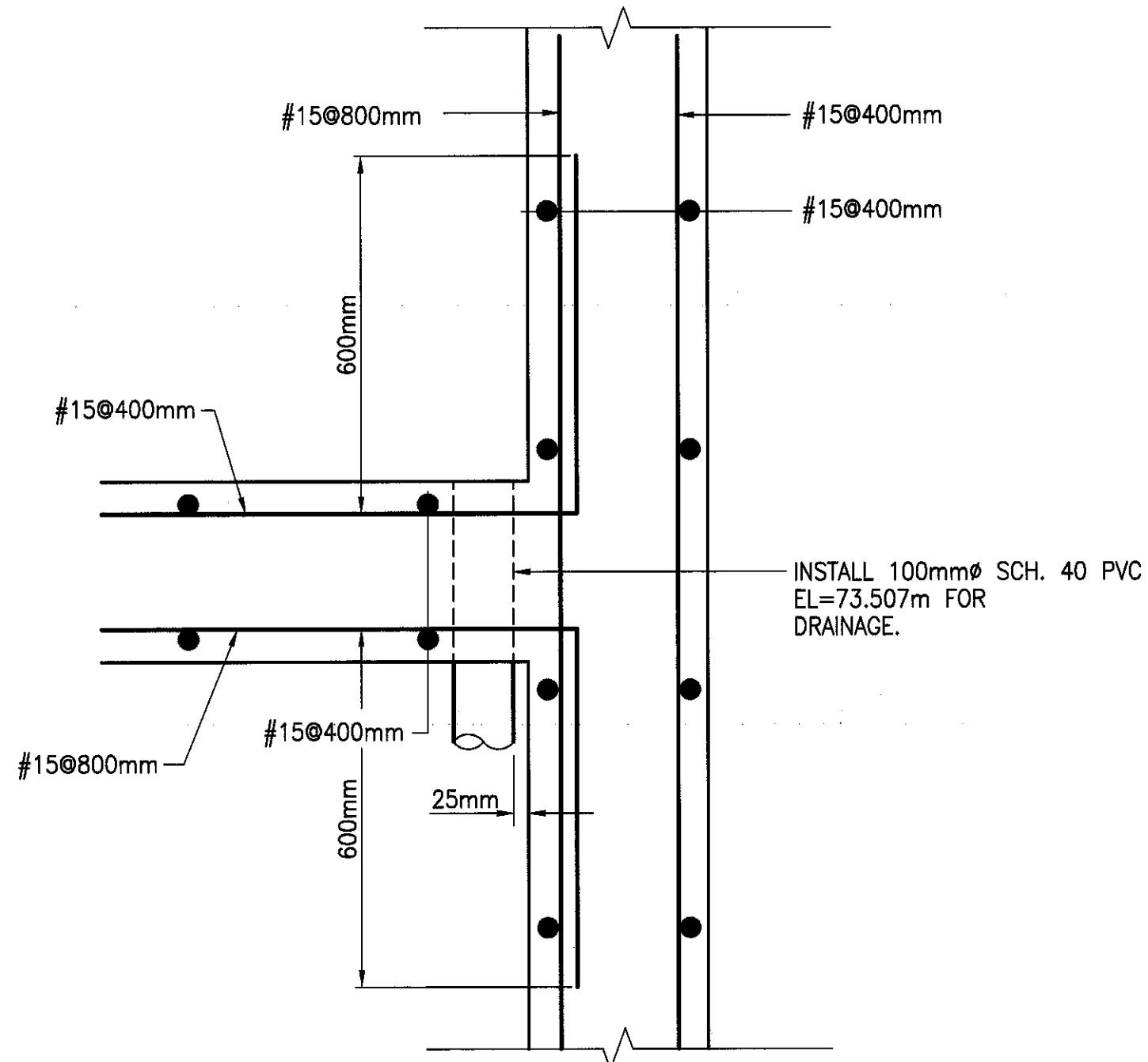
PROJECT TITLE
SHEET TITLE

DESIGNED BY: AJR/JMT
DRAWN BY: AJR
CHECKED BY: JAN
APPROVED BY: RLB

DATE: 04/28/00
CITY SPECIFICATION NO. 99059B
SHEET NO.

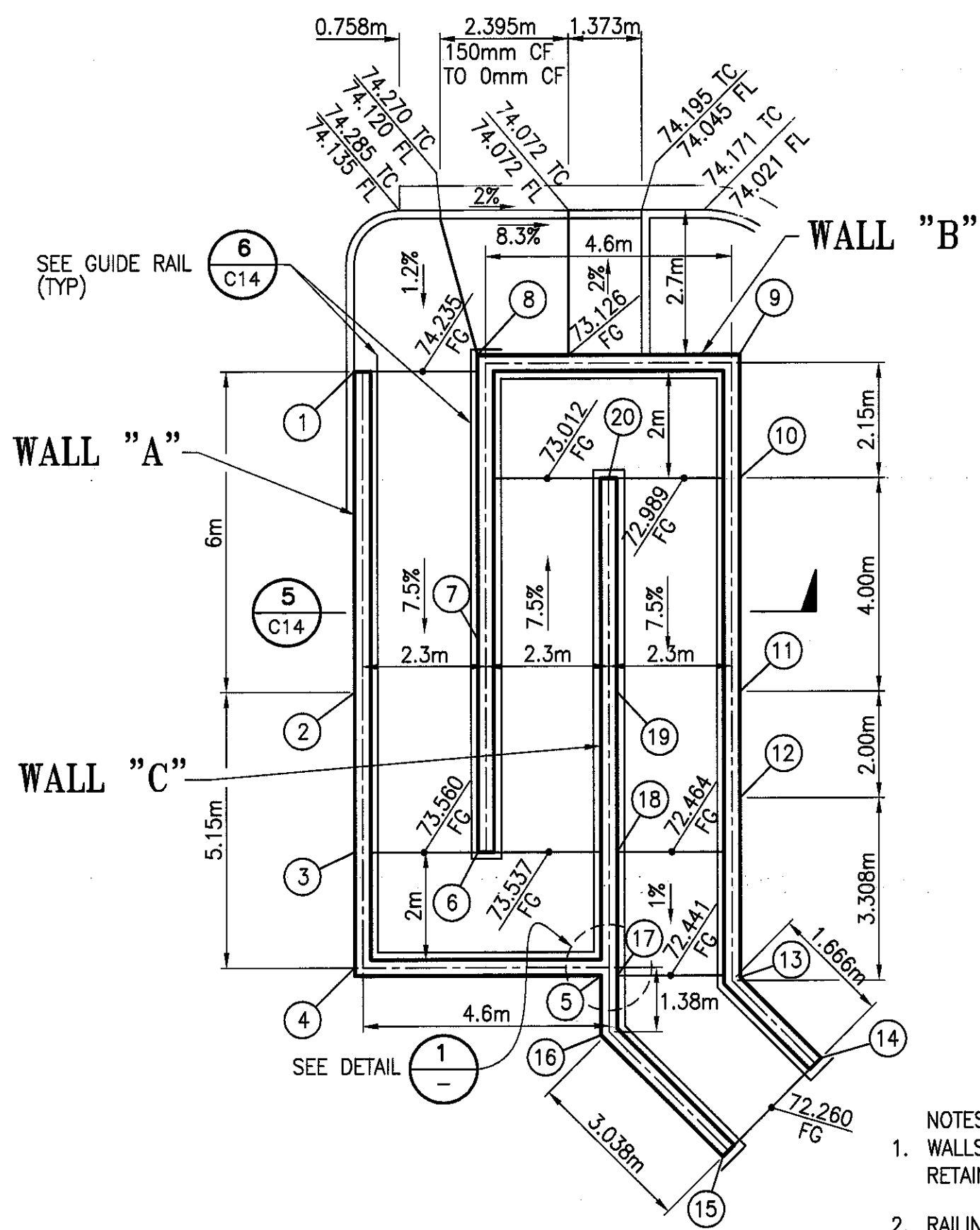
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User: frizzo Job #: VTS6550003



WALL TIE-IN DETAIL
SCALE: 1:10

1



PLAN VIEW

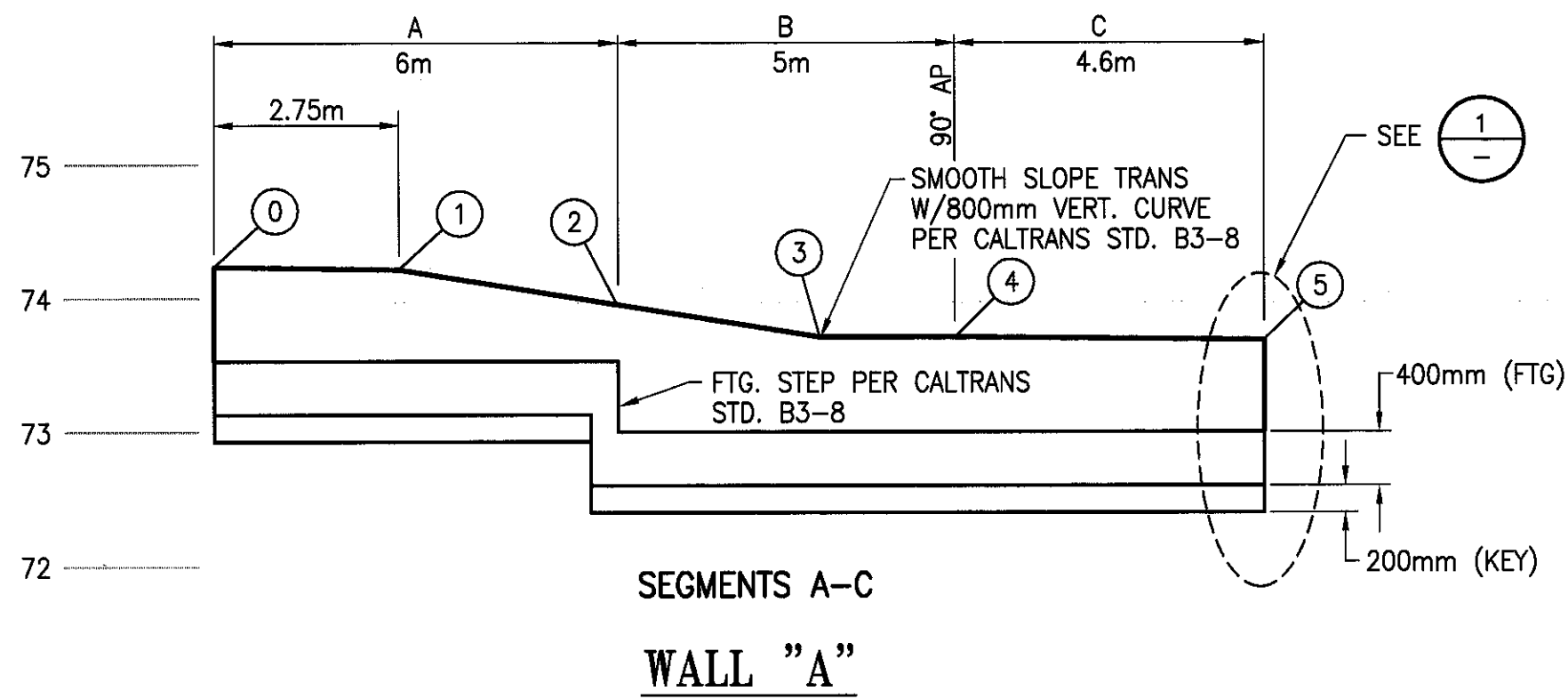
RAMP STRUCTURE DETAIL
SCALE: 1:100

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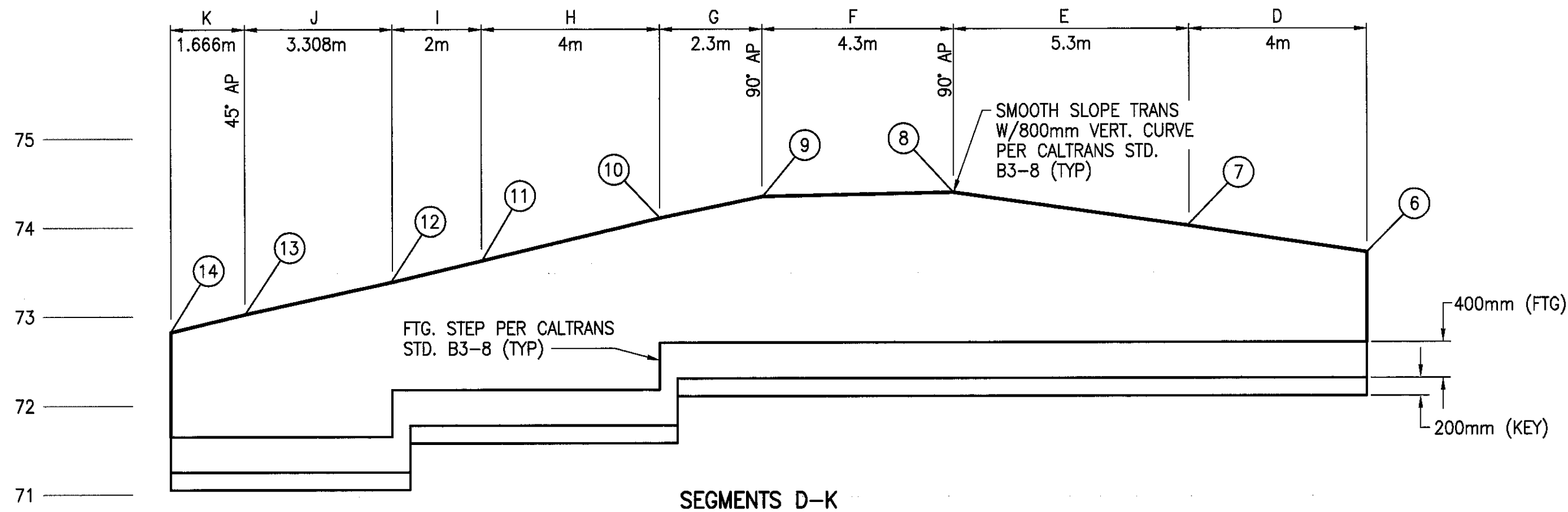
TOP OF WALL ELEVATIONS (M)

POINT	ELEV.	POINT	ELEV.
0	74.235	11	73.622
1	74.214	12	73.382
2	73.952	13	73.021
3	73.710	14	72.821
4	73.710	15	72.760
5	73.687	16	73.397
6	73.710	17	73.687
7	74.010	18	73.687
8	74.385	19	73.462
9	74.342	20	74.162
10	74.102		

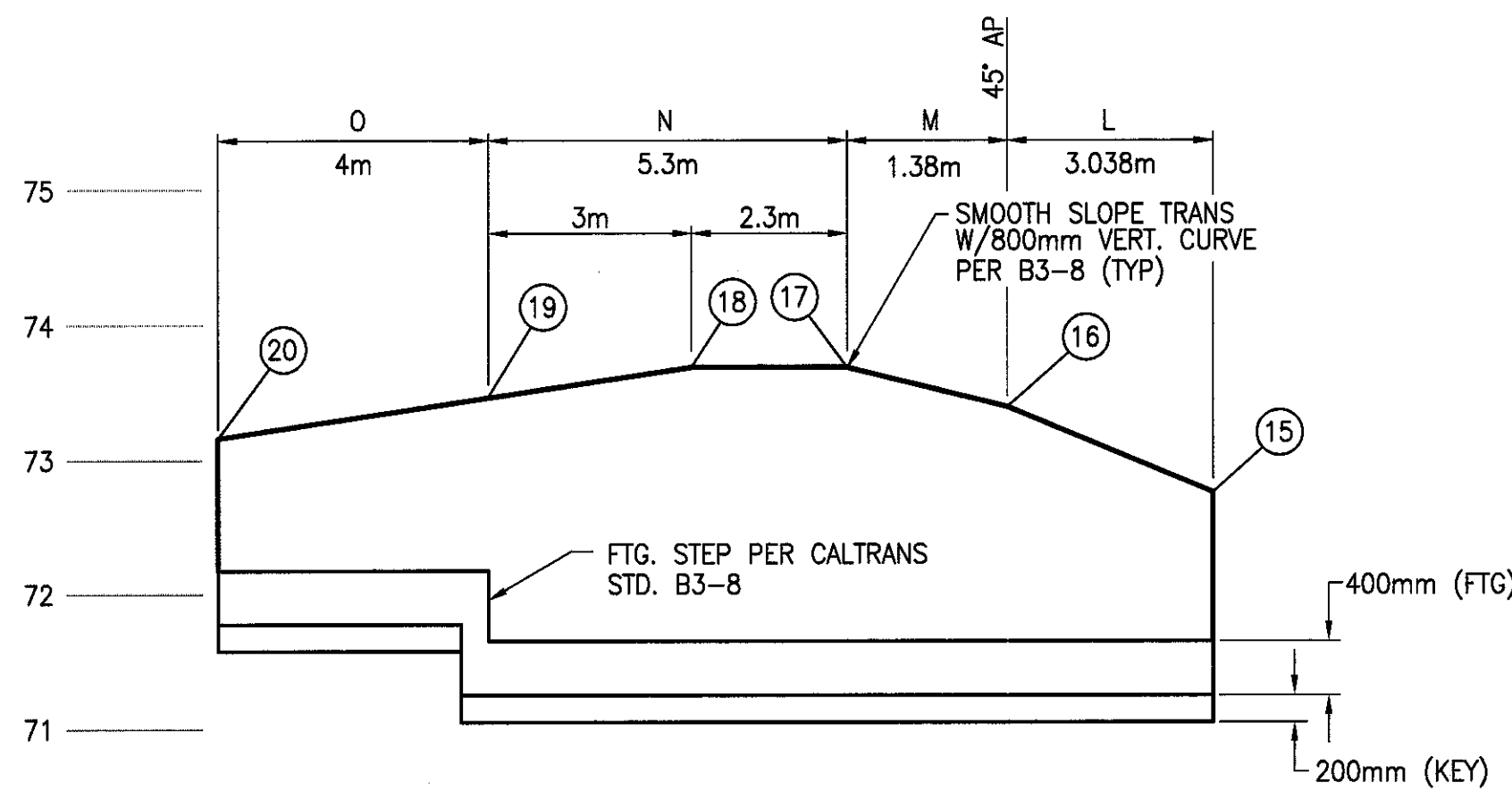
- NOTES:
- WALLS PER CALTRANS STD. B3-1 (TYPE 1 RETAINING WALL) FINISH SHALL BE CLASS 1.
 - RAILING SHALL EXTEND 300mm BEYOND WALL.
 - CONTRACTOR TO COORDINATE WITH ELECTRICAL LIGHTING OF RAMPS.



SEGMENTS A-C
WALL "A"



SEGMENTS D-K
WALL "B"



SEGMENTS L-O
WALL "C"

RAMP STRUCTURE
WALL PROFILES

SCALE: HORIZ. = 1:100
VERT. = 1:50

2

WALL DETAILS			
WALL SEGMENT	DESIGN HT.	DESIGN FTG. WIDTH	TOP OF FTG. ELEV.
A	1200	1000	73.525
B	1200	1000	73.000
C	1200	1000	73.000
D	1200	1000	72.700
E	1800	1300	72.700
F	1800	1300	72.700
G	1800	1300	72.700
H	2400	1600	72.175
I	1800	1300	72.175
J	1800	1300	71.650
K	1200	1000	71.650
L	1800	1300	71.650
M	2400	1600	71.650
N	2400	1600	71.650
O	1800	1300	72.175

NOTE:
SEE CALTRANS STANDARD PLAN B3-1 FOR ADDITIONAL DETAILS. ALL
FOOTINGS ARE SPREAD FOOTINGS.



BOYLE
ENGINEERING CORPORATION

RAILROAD TRANSPORTATION CENTER

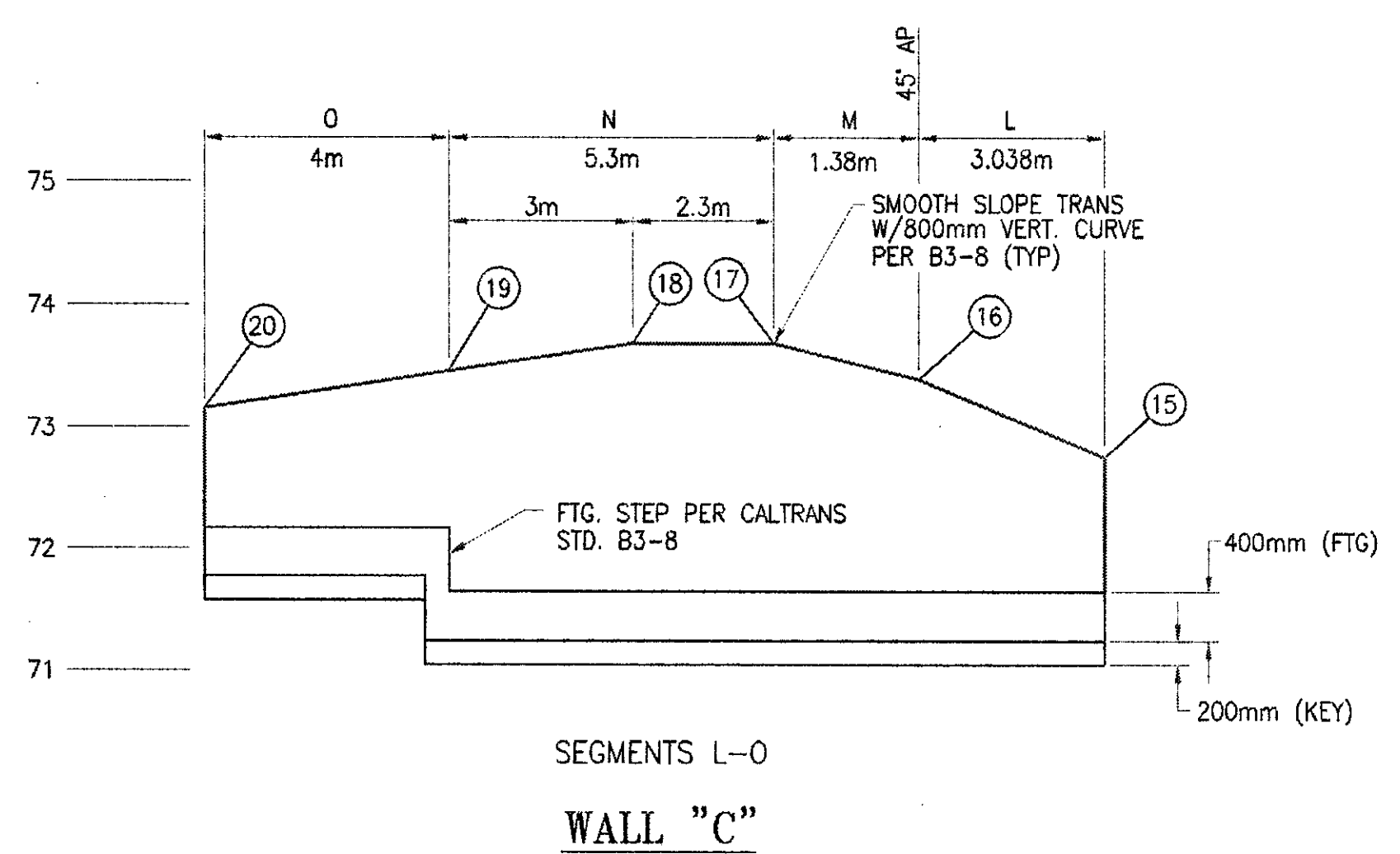
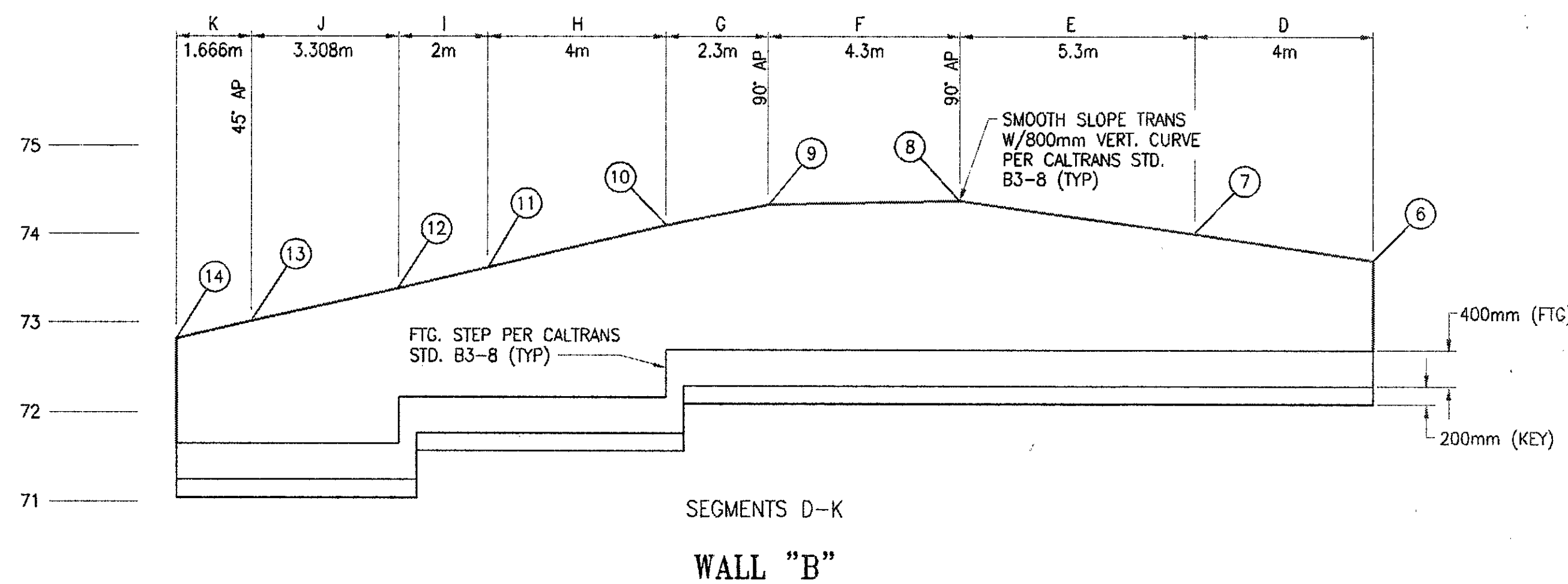
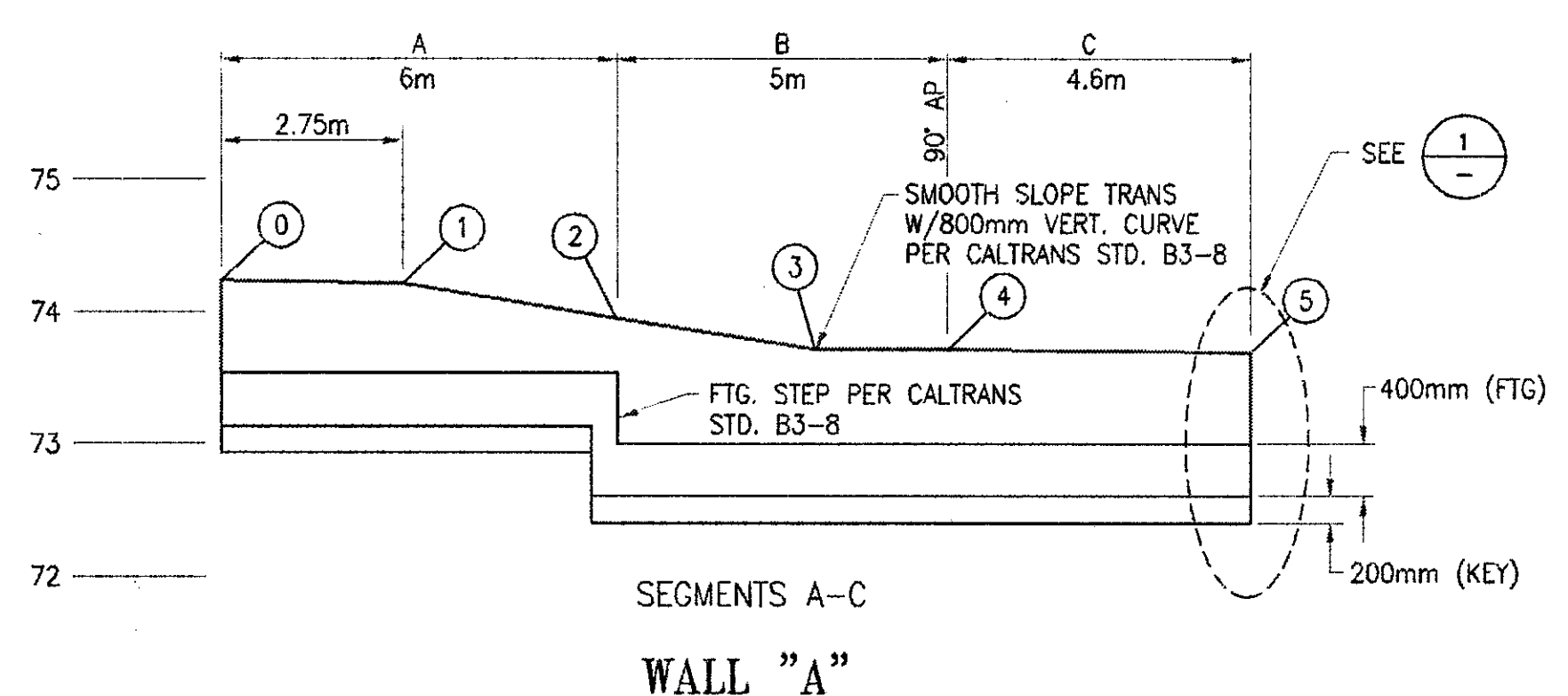
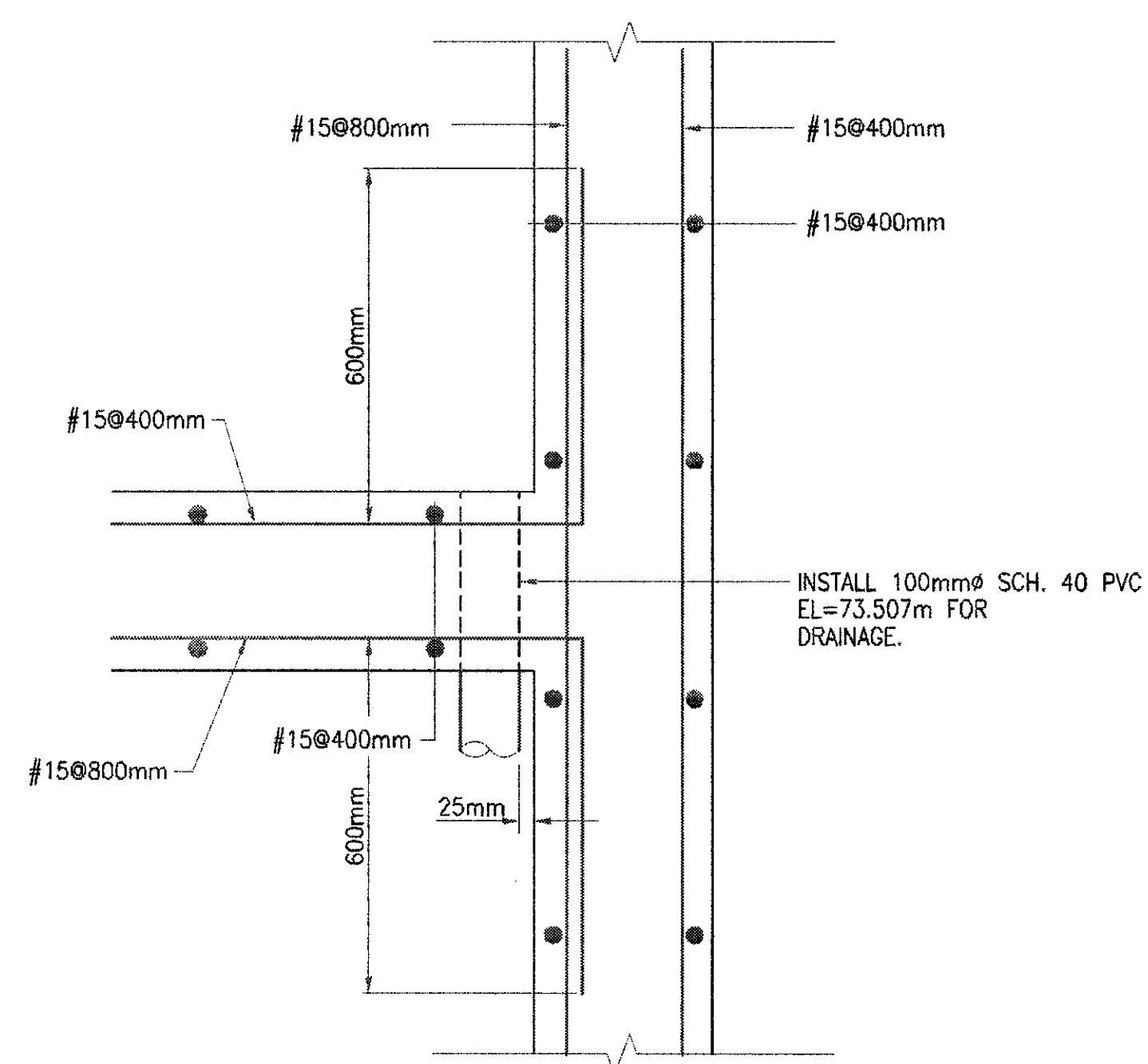
CONSTRUCTION DETAILS

DESIGNED BY: AJR/JMT
DRAWN BY: AJR
CHECKED BY: JAN
APPROVED BY: RLB
DATE: 04/28/00
CITY SPECIFICATION NO. 99059B
SHEET NO.

C13

city of
san luis obispo

REVISIONS:
Record Drawing
Scale: 1:250
H: V:



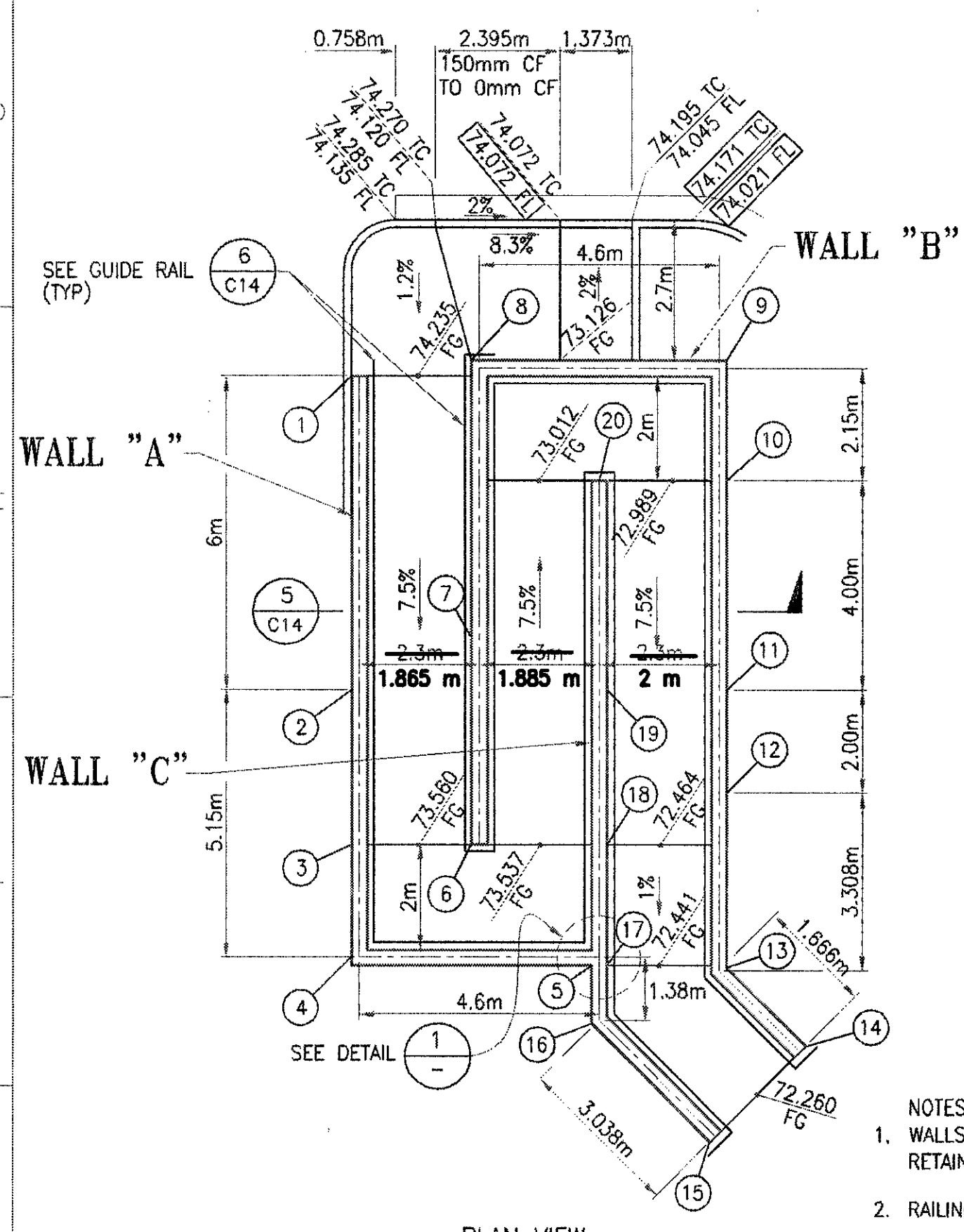
WALL DETAILS

WALL SEGMENT	DESIGN HT.	DESIGN FTG. WIDTH	TOP OF FTG. ELEV.
A	1200	1000	73.525
B	1200	1000	73.000
C	1200	1000	73.000
D	1200	1000	72.700
E	1800	1300	72.700
F	1800	1300	72.700
G	1800	1300	72.700
H	2400	1600	72.175
I	1800	1300	72.175
J	1800	1300	71.650
K	1200	1000	71.650
L	1800	1300	71.650
M	2400	1600	71.650
N	2400	1600	71.650
O	1800	1300	72.175

NOTE:
SEE CALTRANS STANDARD PLAN B3-1 FOR ADDITIONAL DETAILS. ALL FOOTINGS ARE SPREAD FOOTINGS.

RAMP STRUCTURE
WALL PROFILES

SCALE: HORIZ. = 1:100
VERT. = 1:50



RAMP STRUCTURE DETAIL
SCALE: 1:100

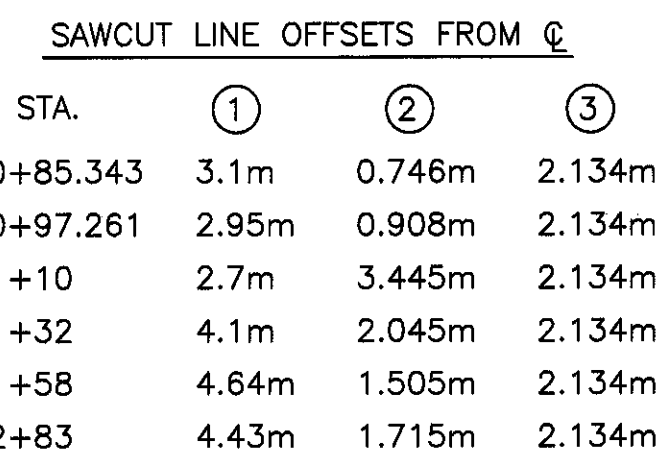
- NOTES:
1. WALLS PER CALTRANS STD. B3-1 (TYPE 1 RETAINING WALL) FINISH SHALL BE CLASS 1.
 2. RAILING SHALL EXTEND 300mm BEYOND WALL.
 3. CONTRACTOR TO COORDINATE WITH ELECTRICAL LIGHTING OF RAMPS.

TOP OF WALL ELEVATIONS (M)

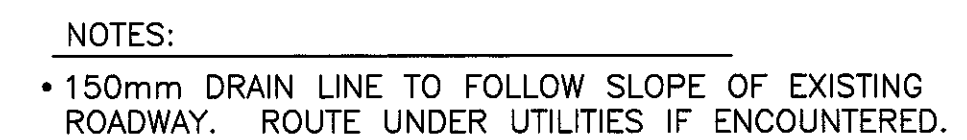
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1	74.214	12	73.382
2	73.952	13	73.021
3	73.710	14	72.821
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5	73.687	16	73.397
6	73.710	17	73.687
7	74.010	18	73.687
8	74.385	19	73.462
9	74.342	20	74.162
10	74.102		



TYPICAL RAMP SECTION
NOT TO SCALE



STA. 1+00.000 TO STA. 2+76.361



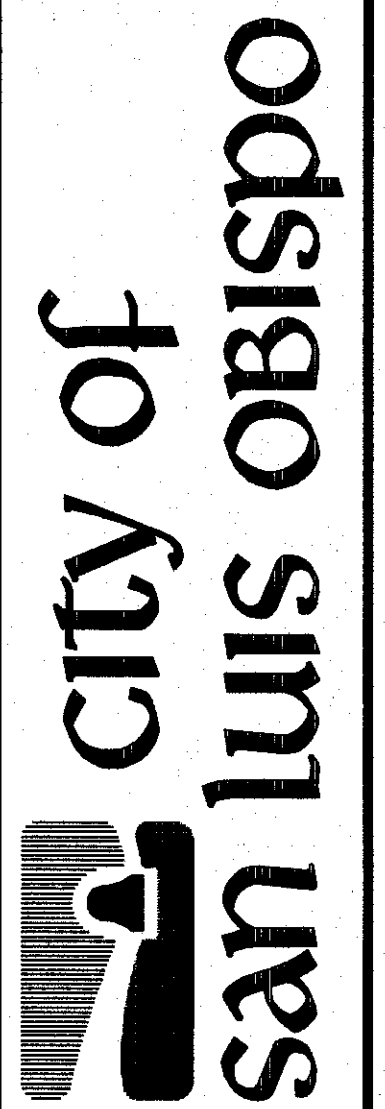
FRENCH DRAIN DETAIL
NOT TO SCALE



SANTA BARBARA ST. TYPICAL SECTIONS
NOT TO SCALE



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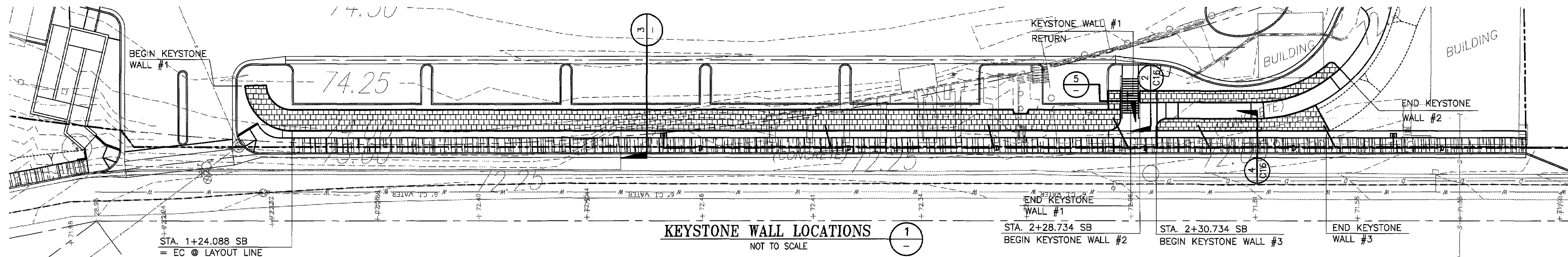


RAILROAD TRANSPORTATION CENTER

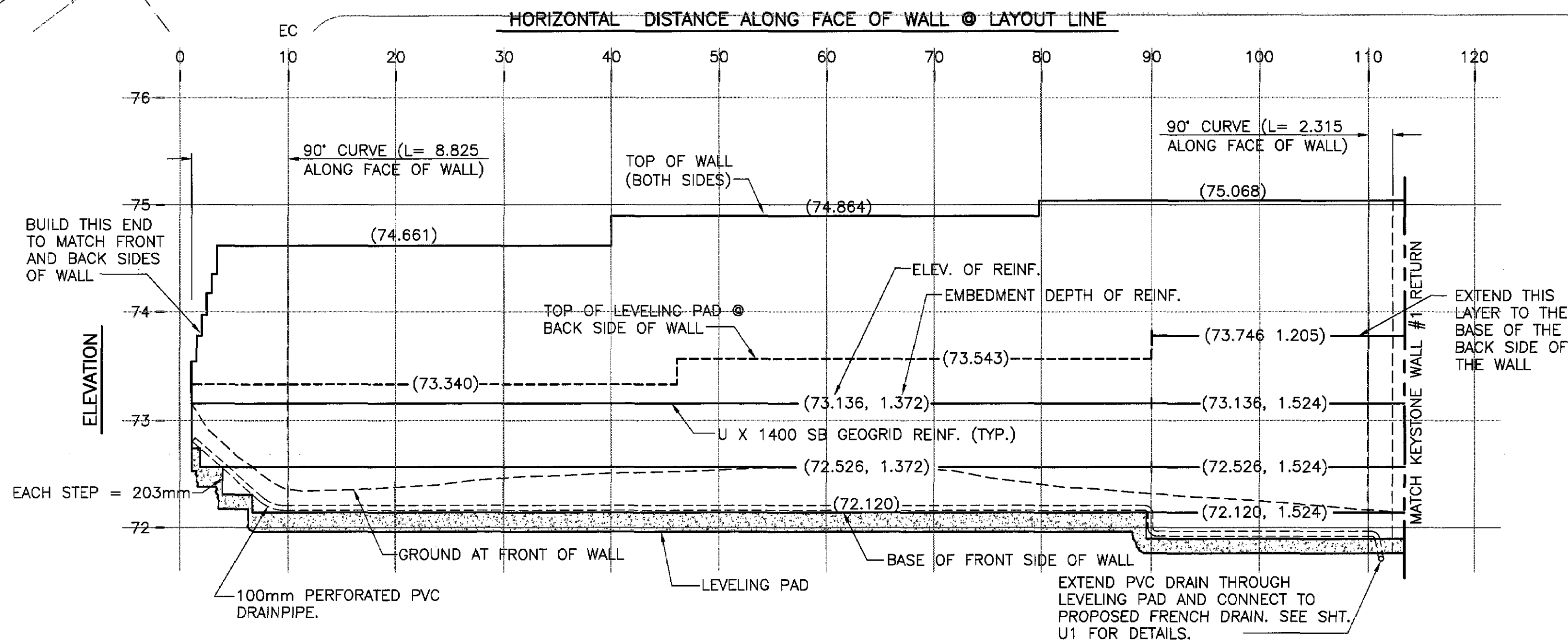
1 TITLE: CONSTRUCTION DETAILS AND TYPICAL SECTIONS

DESIGNED BY: _____
 AJR/JMT
 DRAWN BY: _____
 AJR
 CHECKED BY: _____
 JAN
 APPROVED BY: _____
 RLB
 04/28/00
 SPECIFICATION NO. _____
 99059B
 T NO. _____
C14 A

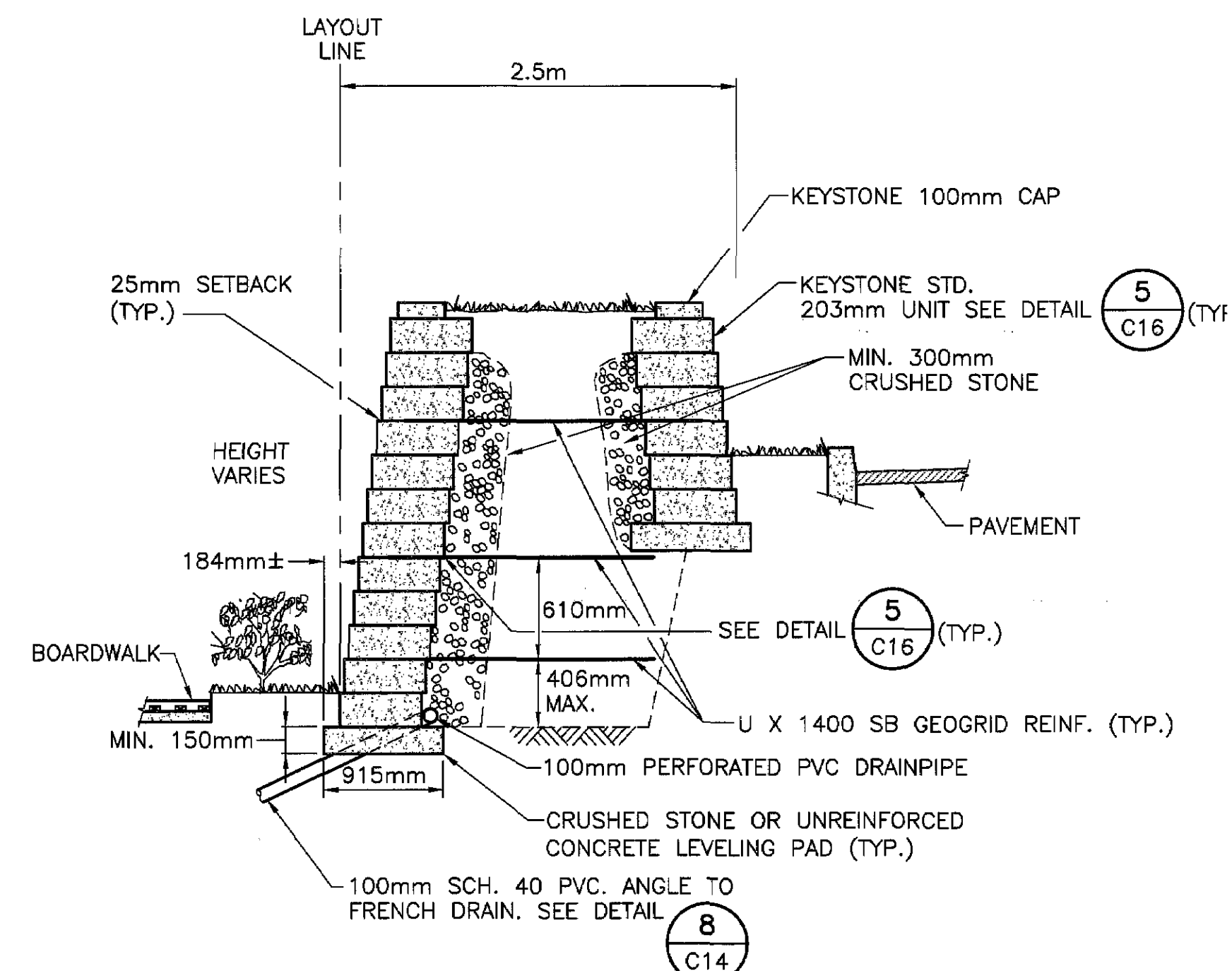
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KEYSTONE WALL LOCATIONS
NOT TO SCALE

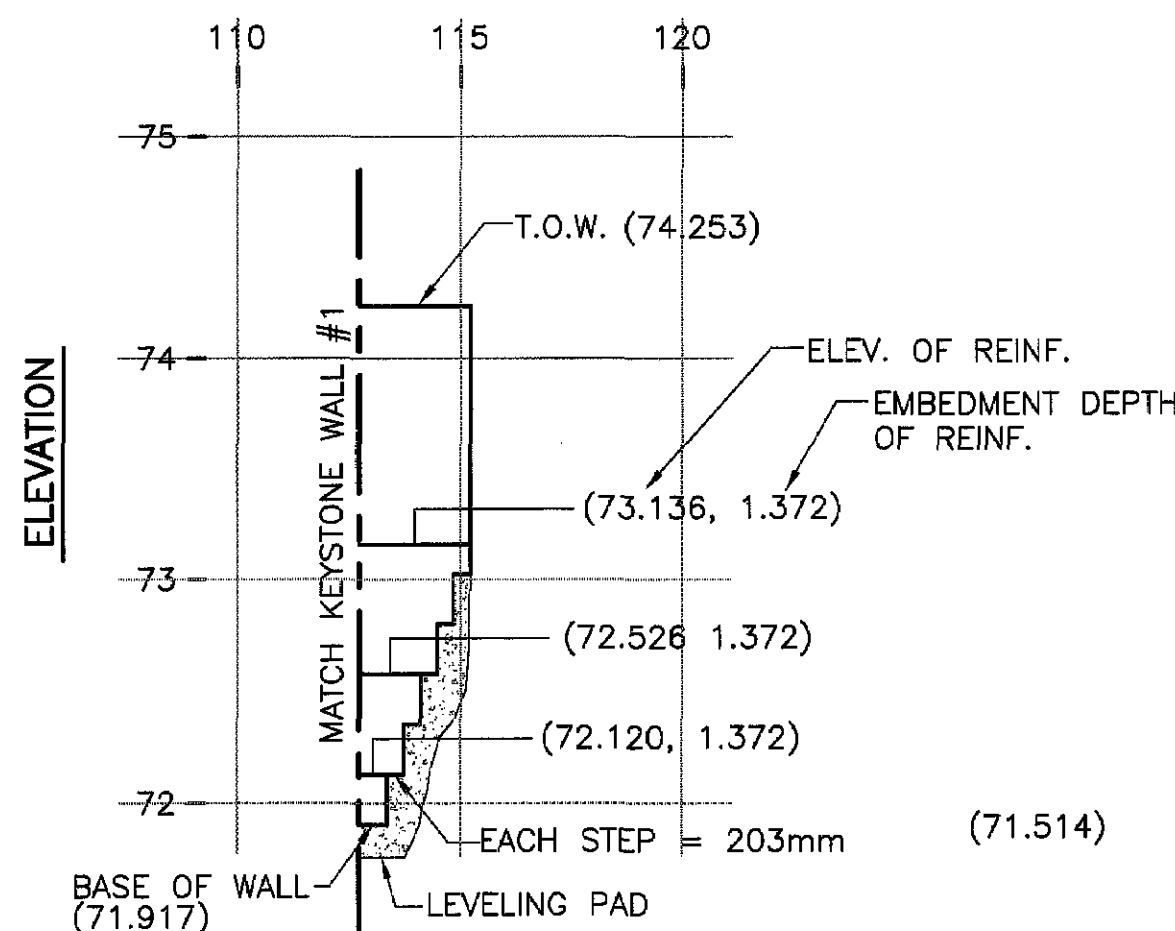


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NOT TO SCALE

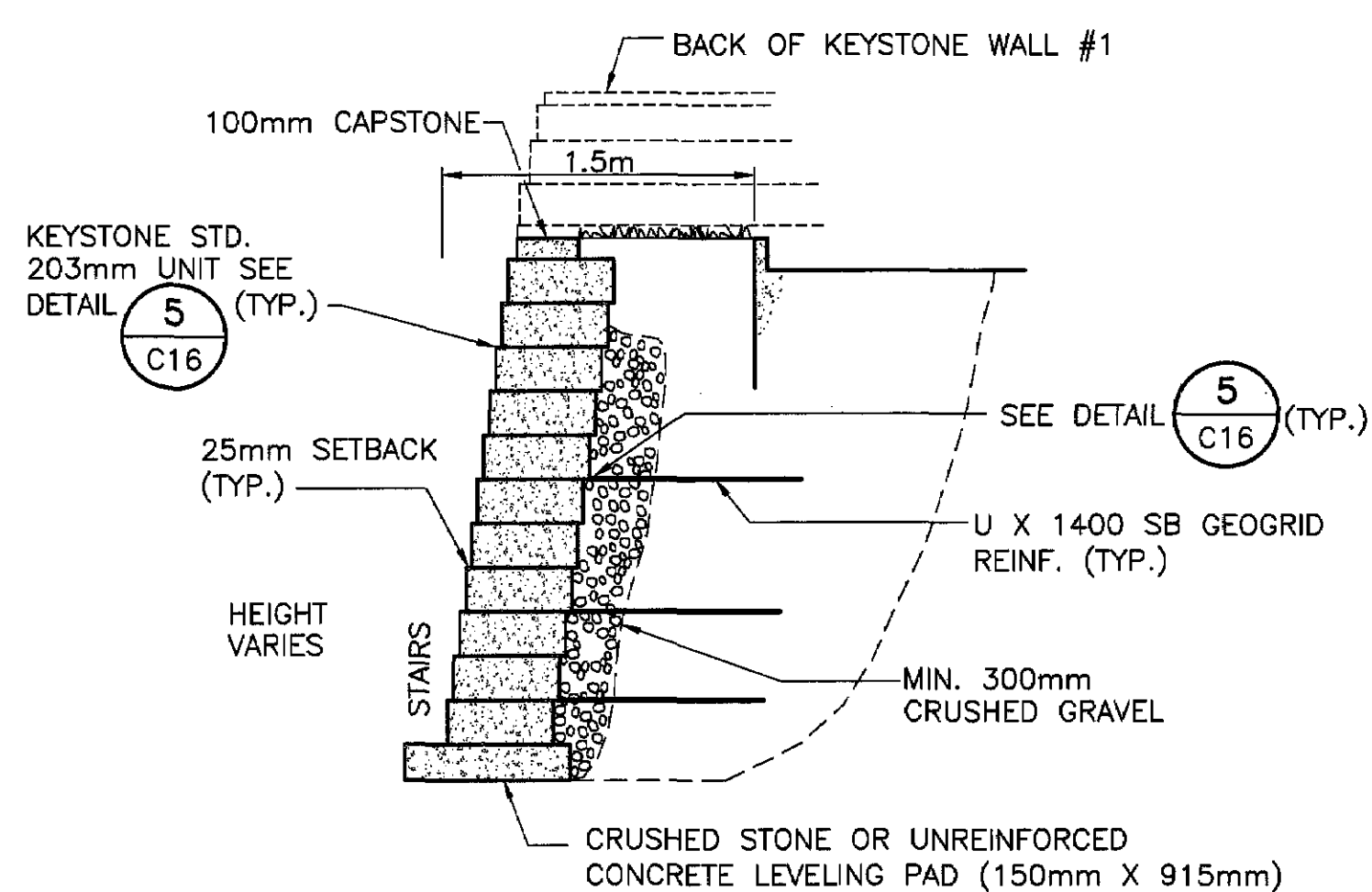


KEYSTONE WALL #1 TYPICAL SECTION
NOT TO SCALE

HORIZONTAL DISTANCE ALONG FACE OF WALL



KEYSTONE WALL #1 RETURN PROFILE
NOT TO SCALE



KEYSTONE WALL #1 RETURN TYPICAL SECTION
NOT TO SCALE

NOTE:
MANUFACTURER'S REPRESENTATIVE SHALL OBSERVE THE WALL BACKFILL AND GEOGRID PLACEMENT DURING CONSTRUCTION OF THE WALL.



BOYLE
ENGINEERING CORPORATION

city of
san luis obispo

RAILROAD TRANSPORTATION CENTER

RETAINING WALL DETAILS

REVISIONS:

Record Drawing

Scale: 1:250
V: 1

DESIGNED BY:

AJR/JMT

DRAWN BY:

AJR

CHECKED BY:

JAN

APPROVED BY:

RLB

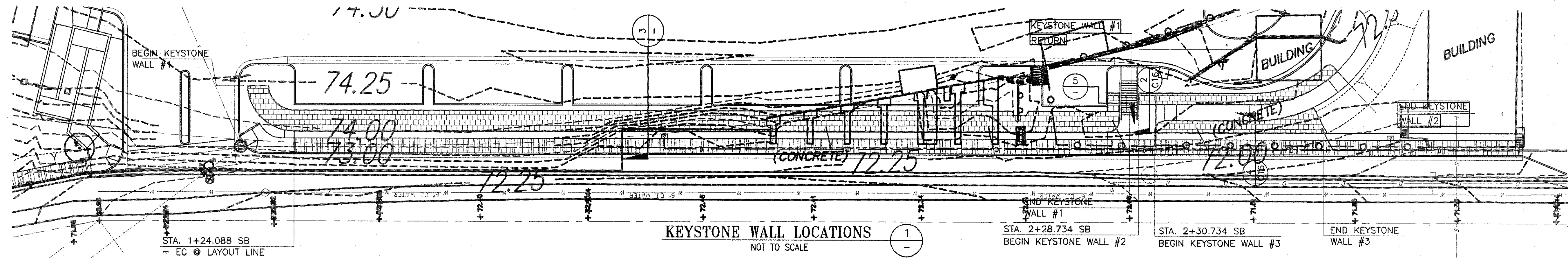
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CITY SPECIFICATION NO. 99059B

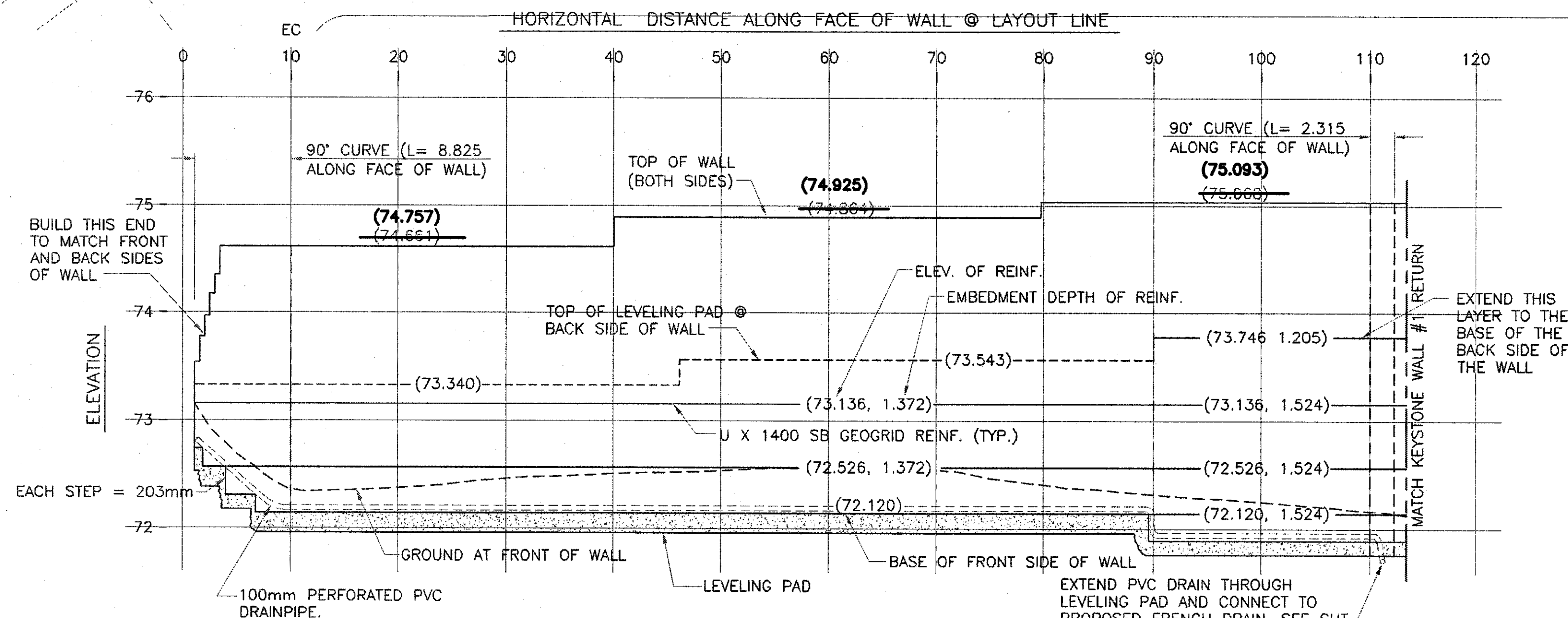
SHEET NO.

C15

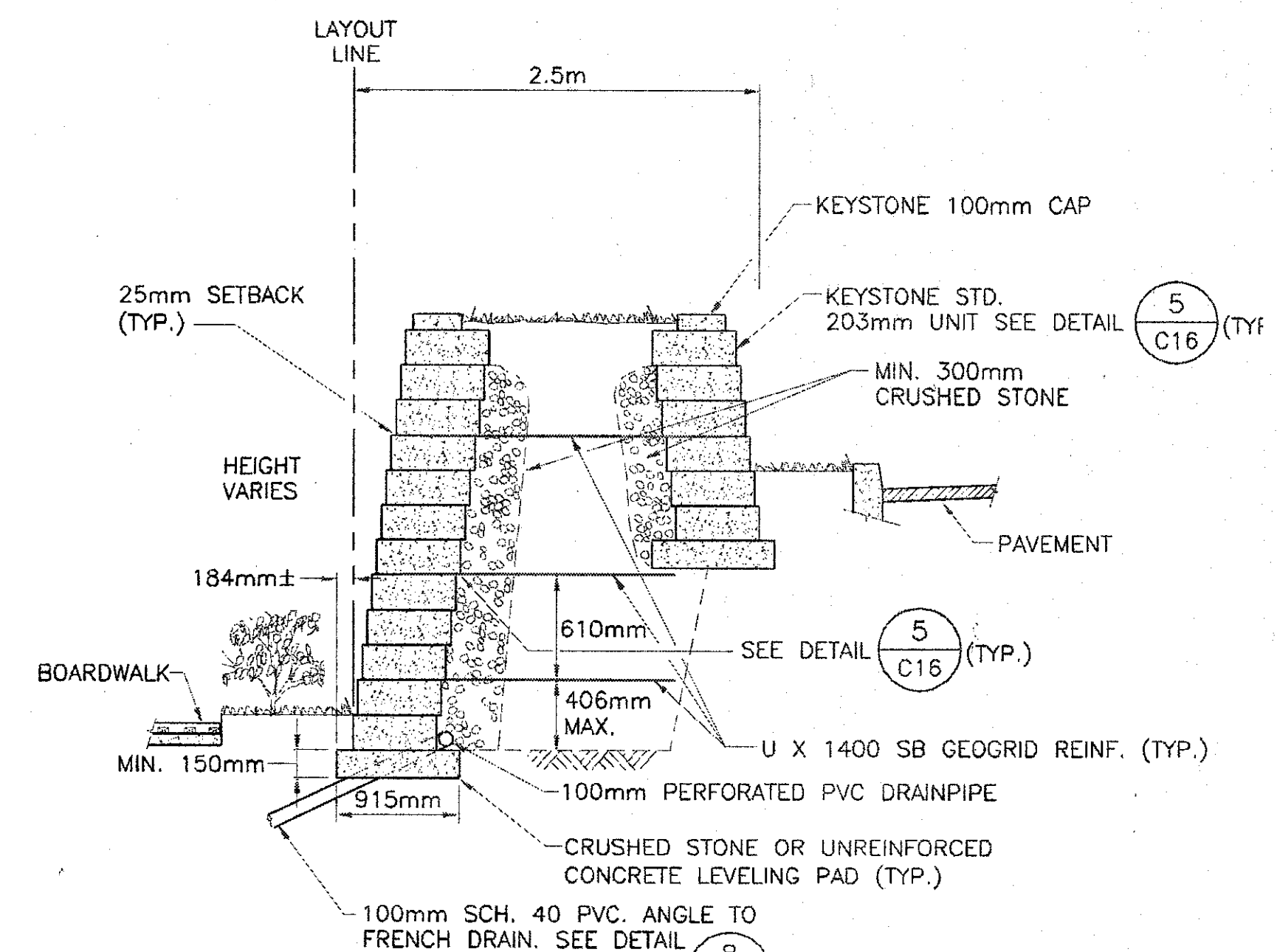
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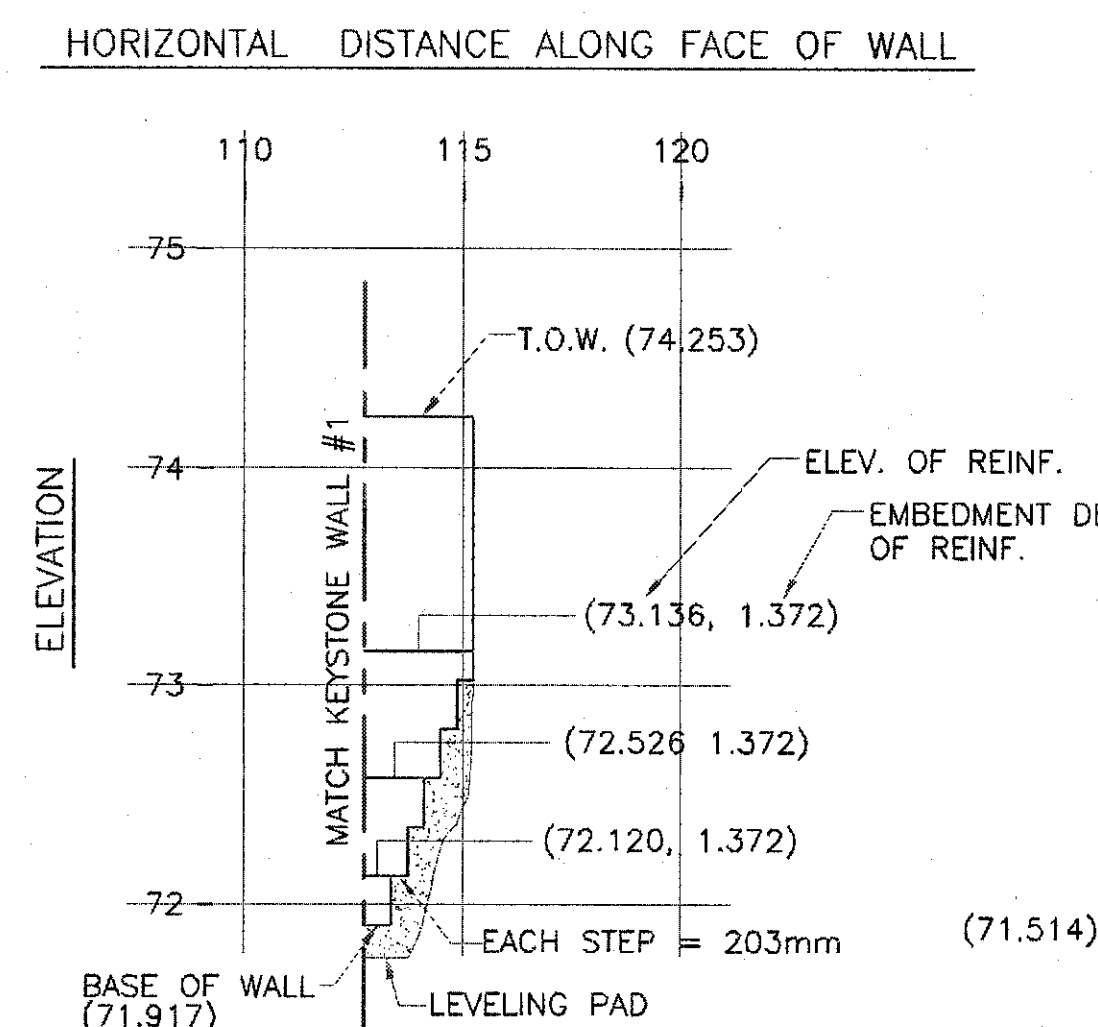
KEYSTONE WALL LOCATIONS
NOT TO SCALE



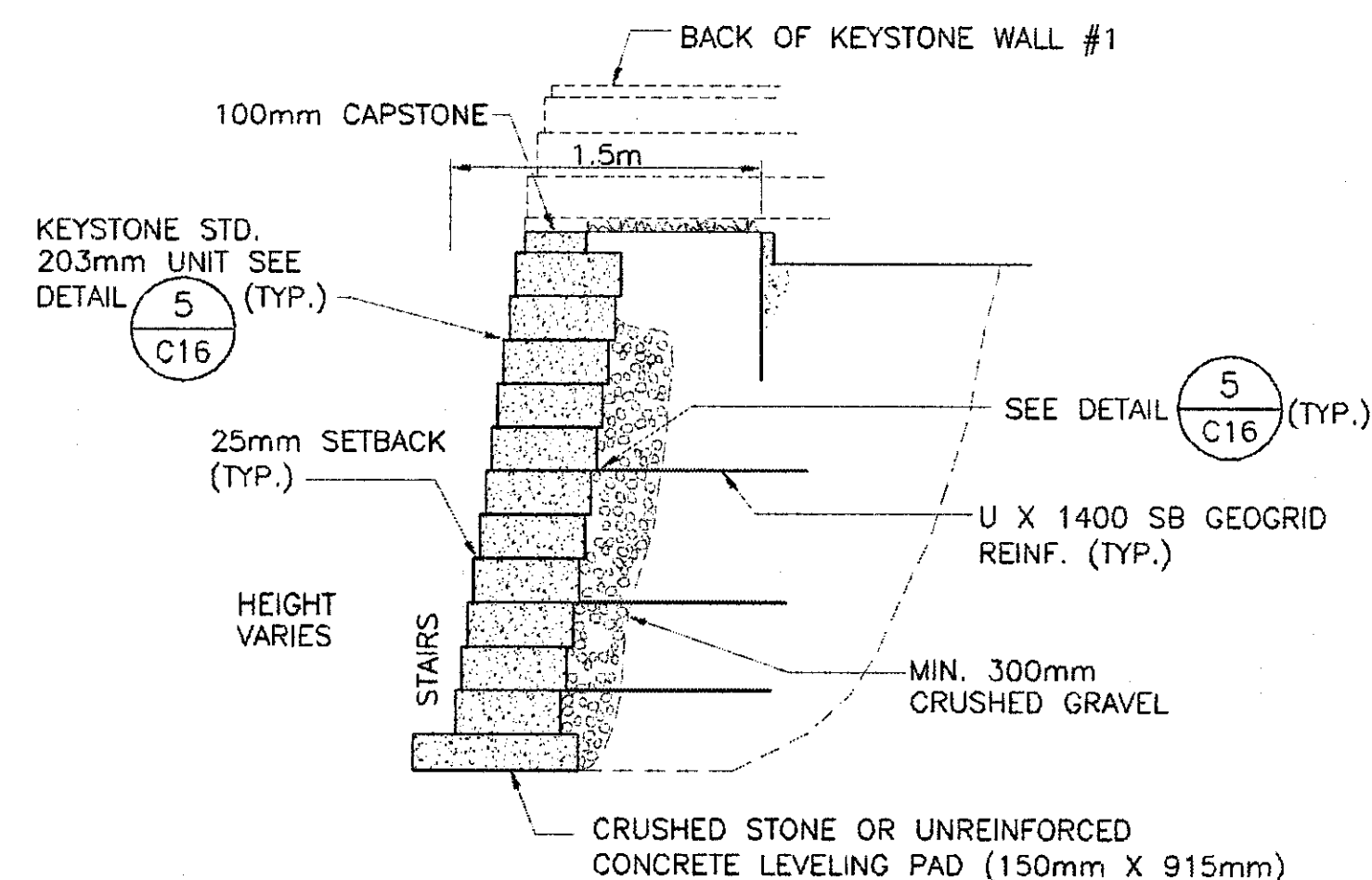
ALLEN BLOCK WALL
KEYSTONE WALL #1 PROFILE
NOT TO SCALE



ALLEN BLOCK WALL TYP.
KEYSTONE WALL #1 TYPICAL SECTION
NOT TO SCALE



ALLEN BLOCK WALL
KEYSTONE WALL #1 RETURN PROFILE
NOT TO SCALE



ALLEN BLOCK WALL
KEYSTONE WALL #1 RETURN TYPICAL SECTION
NOT TO SCALE

NOTE:
MANUFACTURER'S REPRESENTATIVE SHALL OBSERVE THE WALL BACKFILL AND GEOGRID
PLACEMENT DURING CONSTRUCTION OF THE WALL.

RECORD DRAWING
DATE: 8/28/02 BY: SR

BOYLE
ENGINEERING CORPORATION

city of
san luis obispo

RAILROAD TRANSPORTATION CENTER

RETAINING WALL DETAILS

PROJECT TITLE:

DESIGNED BY: AJR/JMT

DRAWN BY: AJR

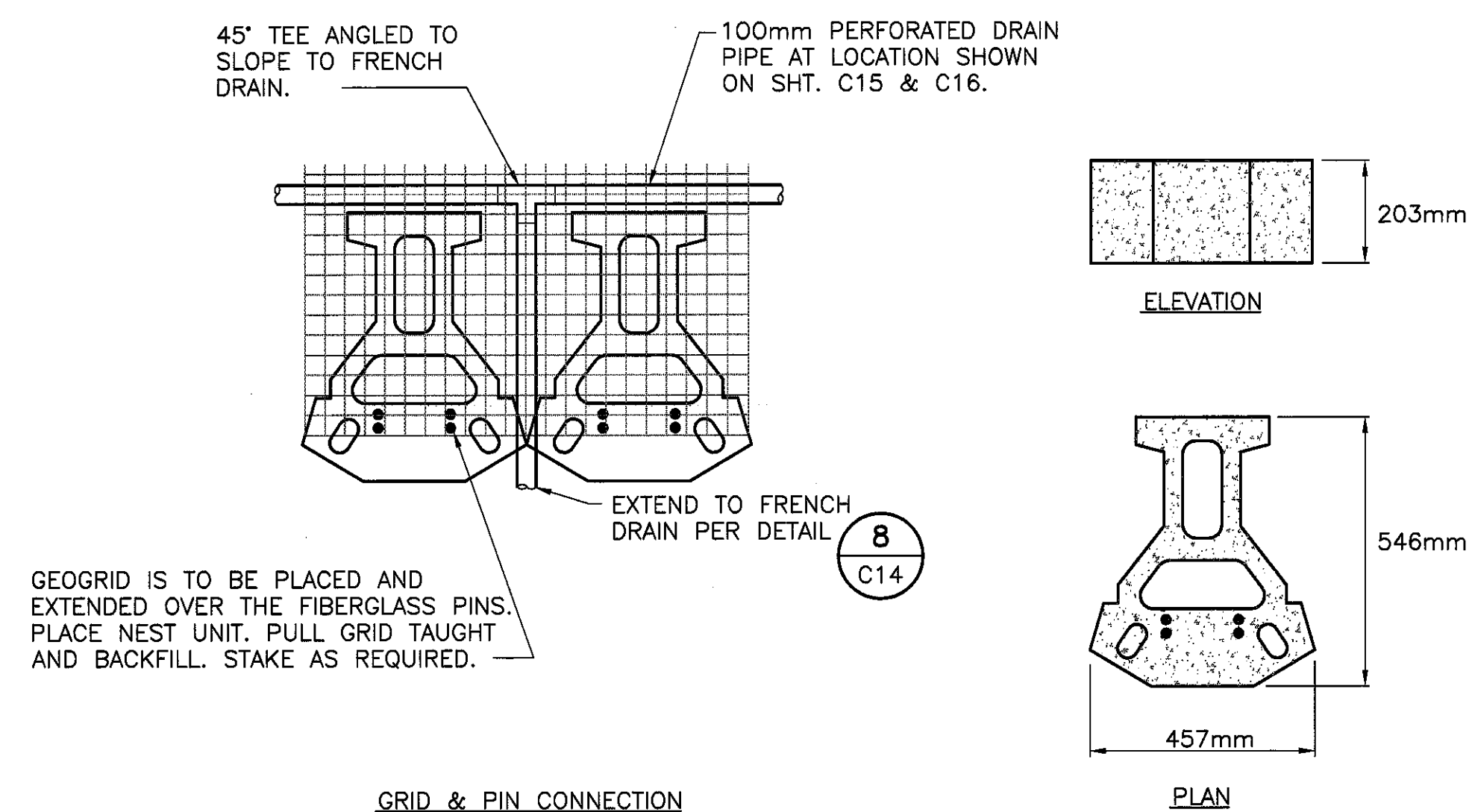
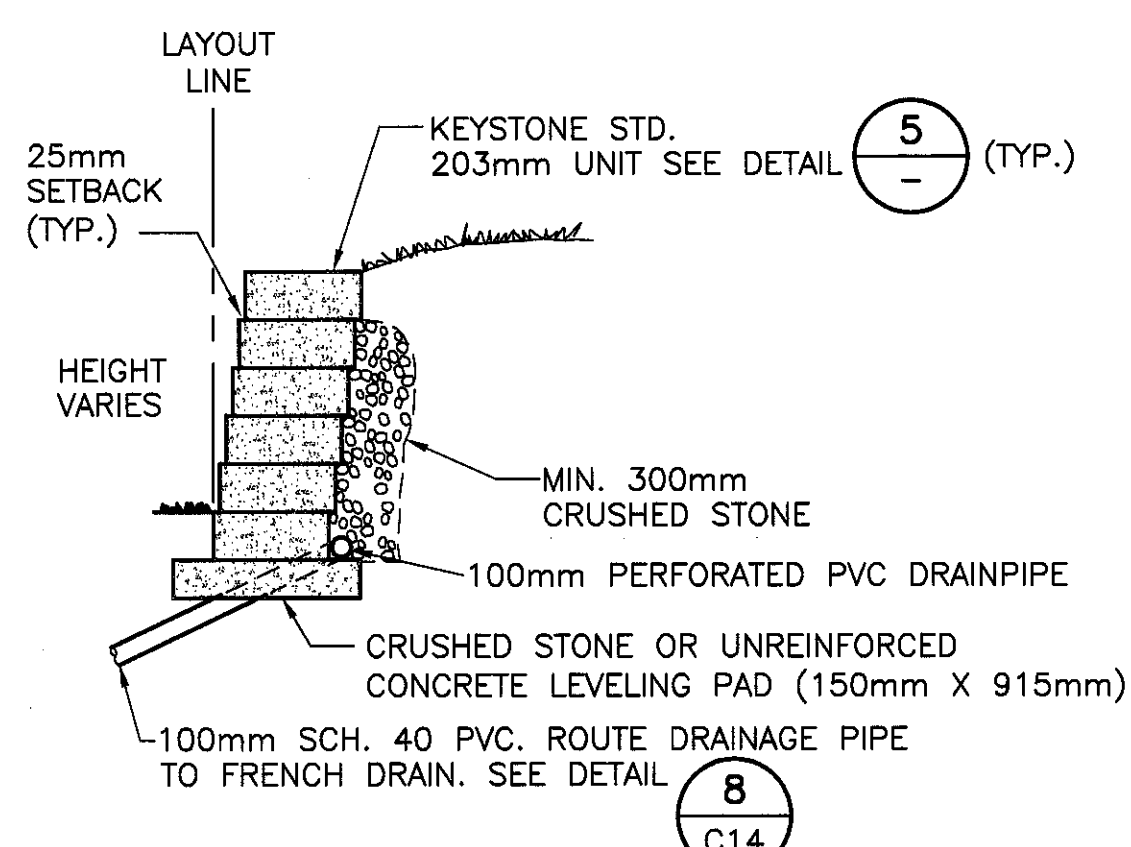
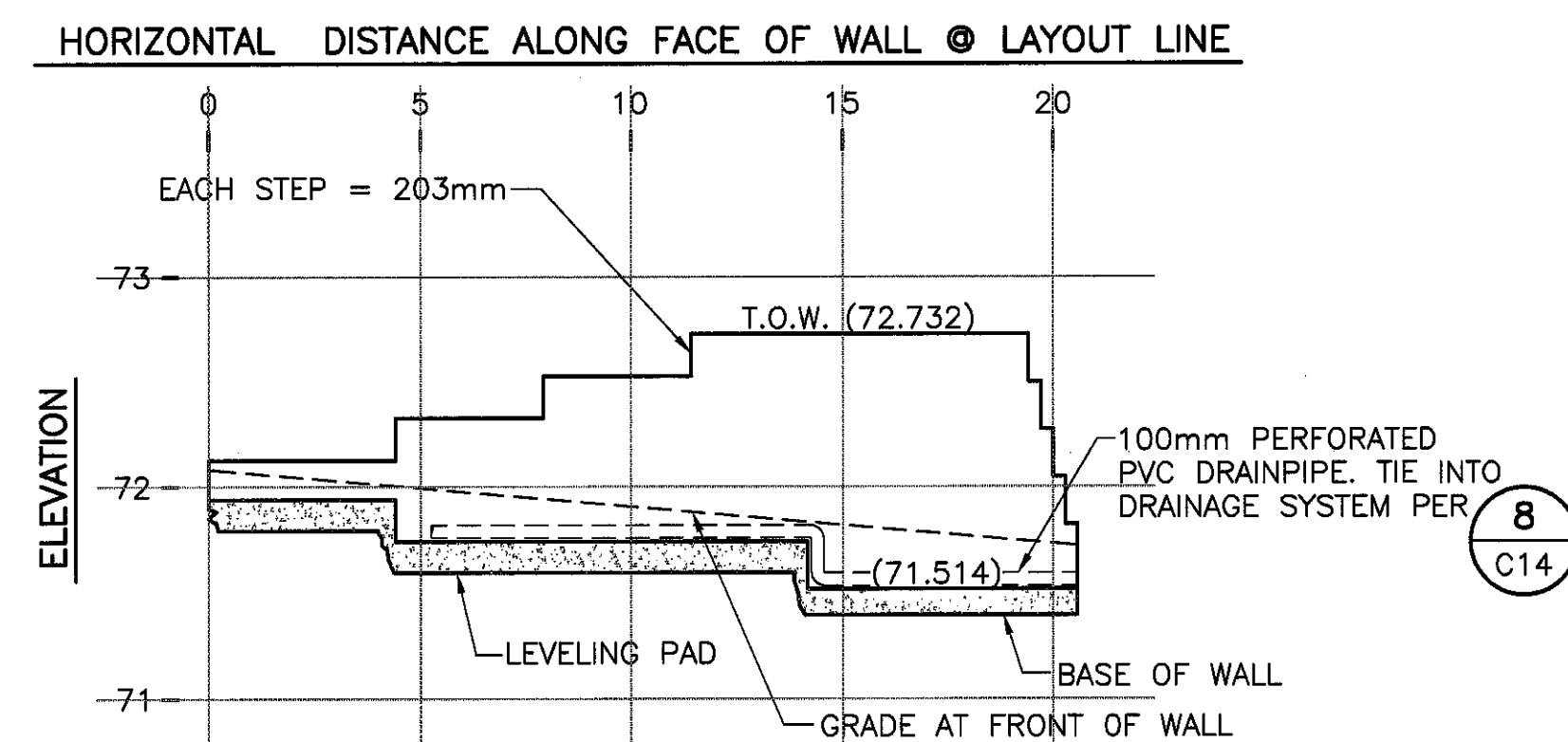
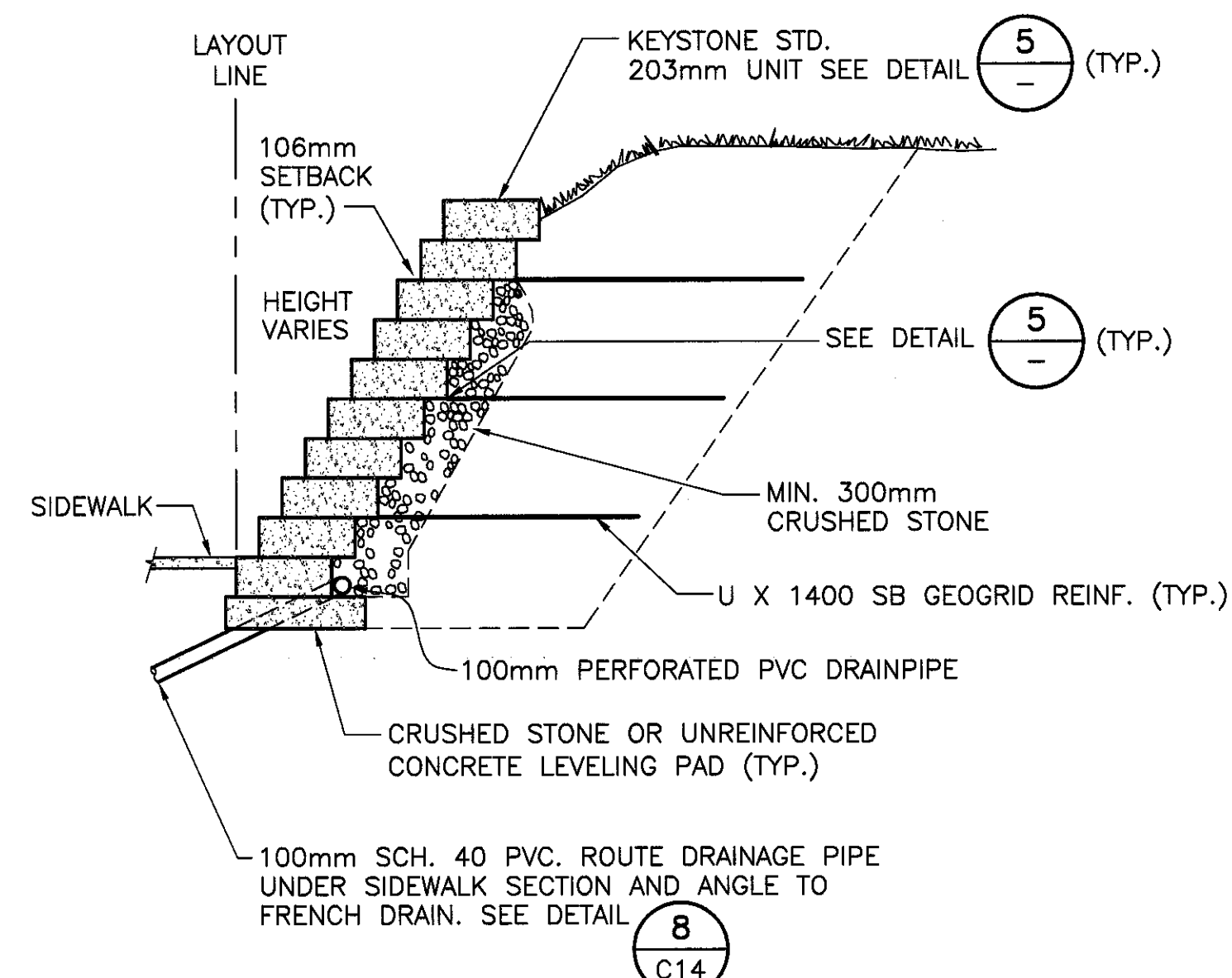
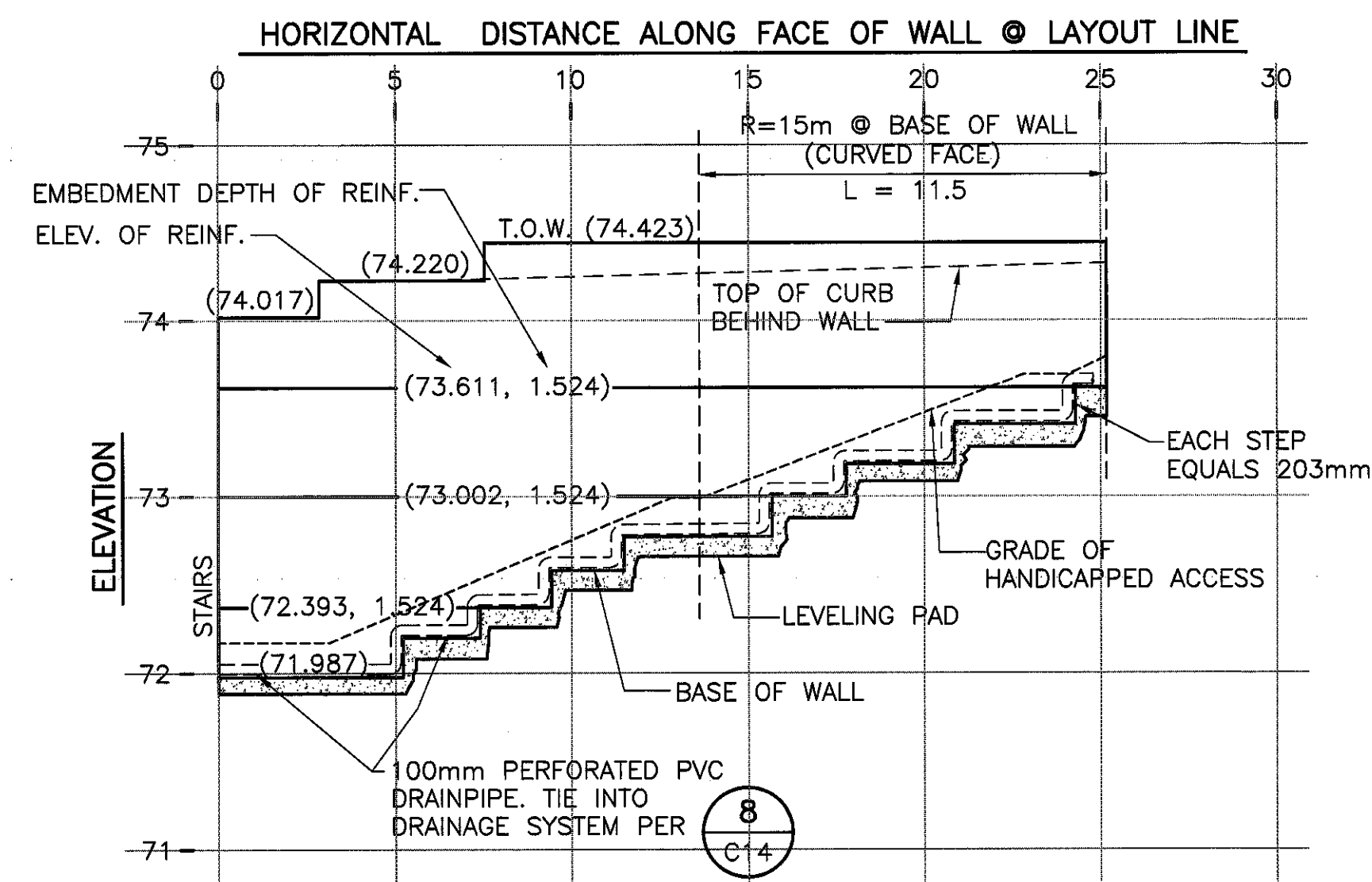

CHECKED BY: JAN

APPROVED BY: RLB

DATE: 04/28/00

CITY SPECIFICATION NO. 99059B

SHEET NO. C15A

**BOYLE**
ENGINEERING CORPORATION

city of
san luis obispo

REVISIONS:

Metric Scale:
H: 1:250
V: —

RAILROAD TRANSPORTATION CENTER

RETAINING WALL DETAILS

APPENDIX C

DESIGNED BY:

AJR

DRAWN BY:

CHECKED BY _____

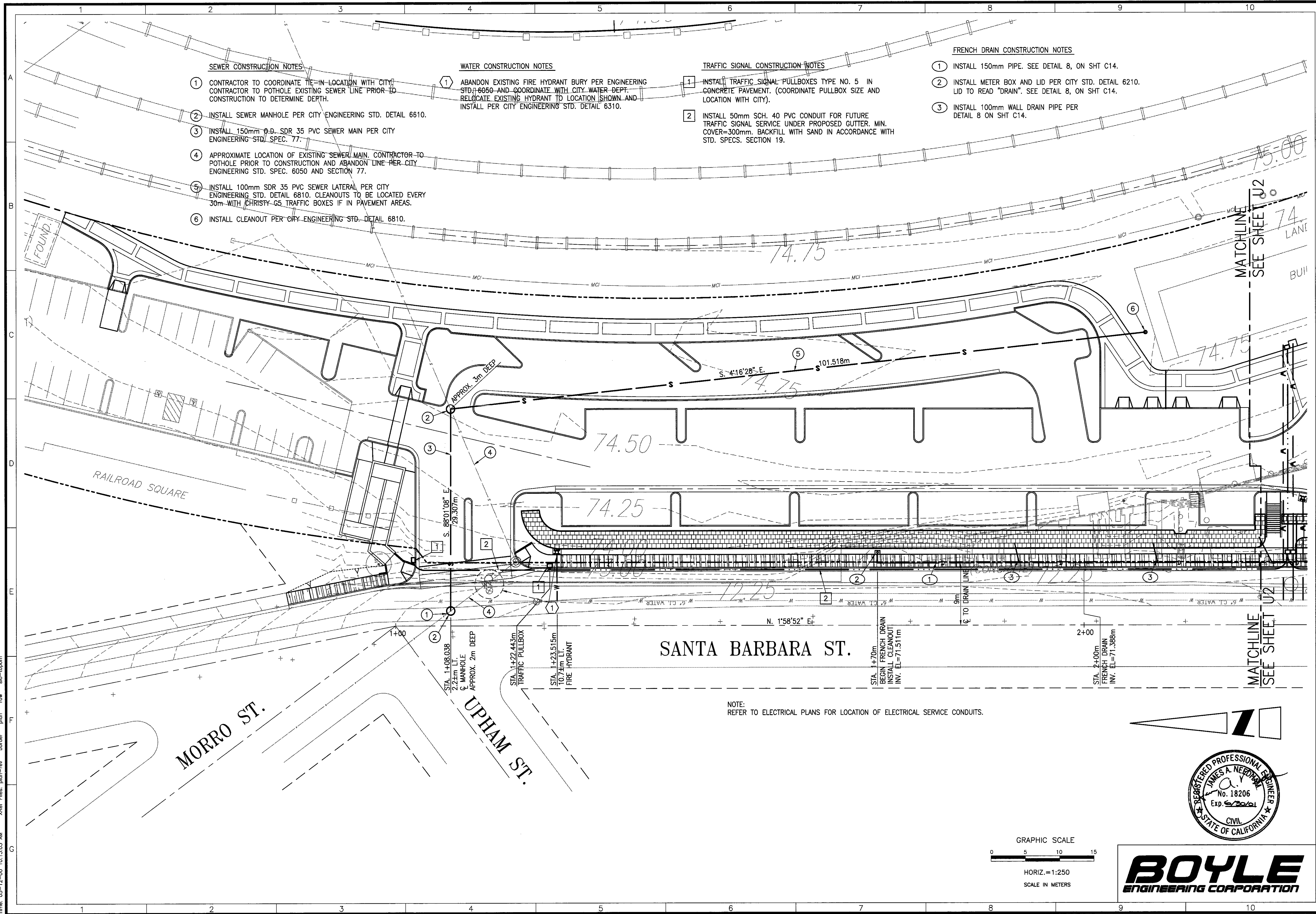
CHECKED BY: _____

APPROVED BY _____

7

S-1237 0106 B

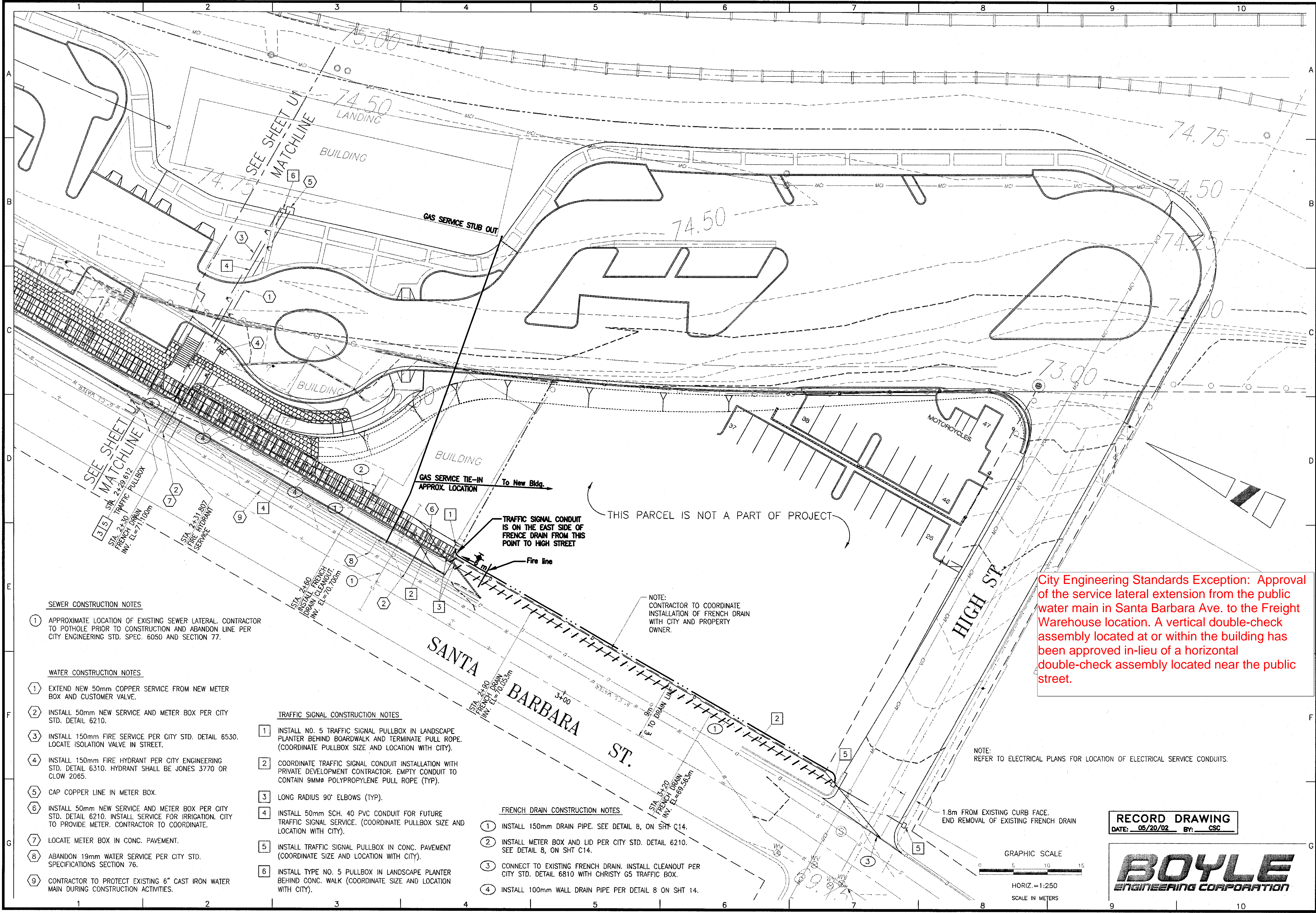
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city of
san luis obispo

REVISIONS:	Record Drawing	Scale: 1:250
PROJECT TITLE: RAILROAD TRANSPORTATION CENTER		
SHEET TITLE: ON-SITE AND OFF-SITE UTILITIES		
DESIGNED BY:	AJR/JMT	
DRAWN BY:	AJR	
CHECKED BY:	JAN	
APPROVED BY:	RLB	
DATE:	04/28/00	
CITY SPECIFICATION NO.	99059B	
SHEET NO.	U1	

DWG: H:\reedham\6650003\acad\dwg\shd u-02 User: dmlines Job #: VT5650003
Time: 05-12-00 11:14:02 AM Xref Files: plan-rev border plan row file-topom



SEWER CONSTRUCTION NOTES

- 1 APPROXIMATE LOCATION OF EXISTING SEWER LATERAL. CONTRACTOR TO POTHOLE PRIOR TO CONSTRUCTION AND ABANDON LINE PER CITY ENGINEERING STD. SPEC. 6050 AND SECTION 77.

WATER CONSTRUCTION NOTES

- 1 EXTEND NEW 50mm COPPER SERVICE FROM NEW METER BOX AND CUSTOMER VALVE.
- 2 INSTALL 50mm NEW SERVICE AND METER BOX PER CITY STD. DETAIL 6210.
- 3 INSTALL 150mm FIRE SERVICE PER CITY STD. DETAIL 6530. LOCATE ISOLATION VALVE IN STREET.
- 4 INSTALL 150mm FIRE HYDRANT PER CITY ENGINEERING STD. DETAIL 6310. HYDRANT SHALL BE JONES 3770 OR CLOW 2065.
- 5 CAP COPPER LINE IN METER BOX.
- 6 INSTALL 50mm NEW SERVICE AND METER BOX PER CITY STD. DETAIL 6210. INSTALL SERVICE FOR IRRIGATION. CITY TO PROVIDE METER. CONTRACTOR TO COORDINATE.
- 7 LOCATE METER BOX IN CONC. PAVEMENT.
- 8 ABANDON 19mm WATER SERVICE PER CITY STD. SPECIFICATIONS SECTION 76.
- 9 CONTRACTOR TO PROTECT EXISTING 6" CAST IRON WATER MAIN DURING CONSTRUCTION ACTIVITIES.

TRAFFIC SIGNAL CONSTRUCTION NOTES

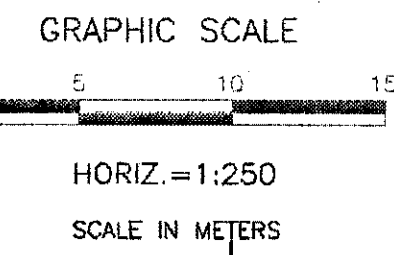
- 1 INSTALL NO. 5 TRAFFIC SIGNAL PULLBOX IN LANDSCAPE PLANTER BEHIND BOARDWALK AND TERMINATE PULL ROPE. (COORDINATE PULLBOX SIZE AND LOCATION WITH CITY).
- 2 COORDINATE TRAFFIC SIGNAL CONDUIT INSTALLATION WITH PRIVATE DEVELOPMENT CONTRACTOR. EMPTY CONDUIT TO CONTAIN 9mmø POLYPROPYLENE PULL ROPE (TYP).
- 3 LONG RADIUS 90° ELBOWS (TYP).
- 4 INSTALL 50mm SCH. 40 PVC CONDUIT FOR FUTURE TRAFFIC SIGNAL SERVICE. (COORDINATE PULLBOX SIZE AND LOCATION WITH CITY).
- 5 INSTALL TRAFFIC SIGNAL PULLBOX IN CONC. PAVEMENT (COORDINATE SIZE AND LOCATION WITH CITY).
- 6 INSTALL TYPE NO. 5 PULLBOX IN LANDSCAPE PLANTER BEHIND CONC. WALK (COORDINATE SIZE AND LOCATION WITH CITY).

FRENCH DRAIN CONSTRUCTION NOTES

- 1 INSTALL 150mm DRAIN PIPE. SEE DETAIL 8, ON SHT C14.
- 2 INSTALL METER BOX AND LID PER CITY STD. DETAIL 6210. SEE DETAIL 8, ON SHT C14.
- 3 CONNECT TO EXISTING FRENCH DRAIN. INSTALL CLEANOUT PER CITY STD. DETAIL 6810 WITH CHRISTY G5 TRAFFIC BOX.
- 4 INSTALL 100mm WALL DRAIN PIPE PER DETAIL 8 ON SHT 14.

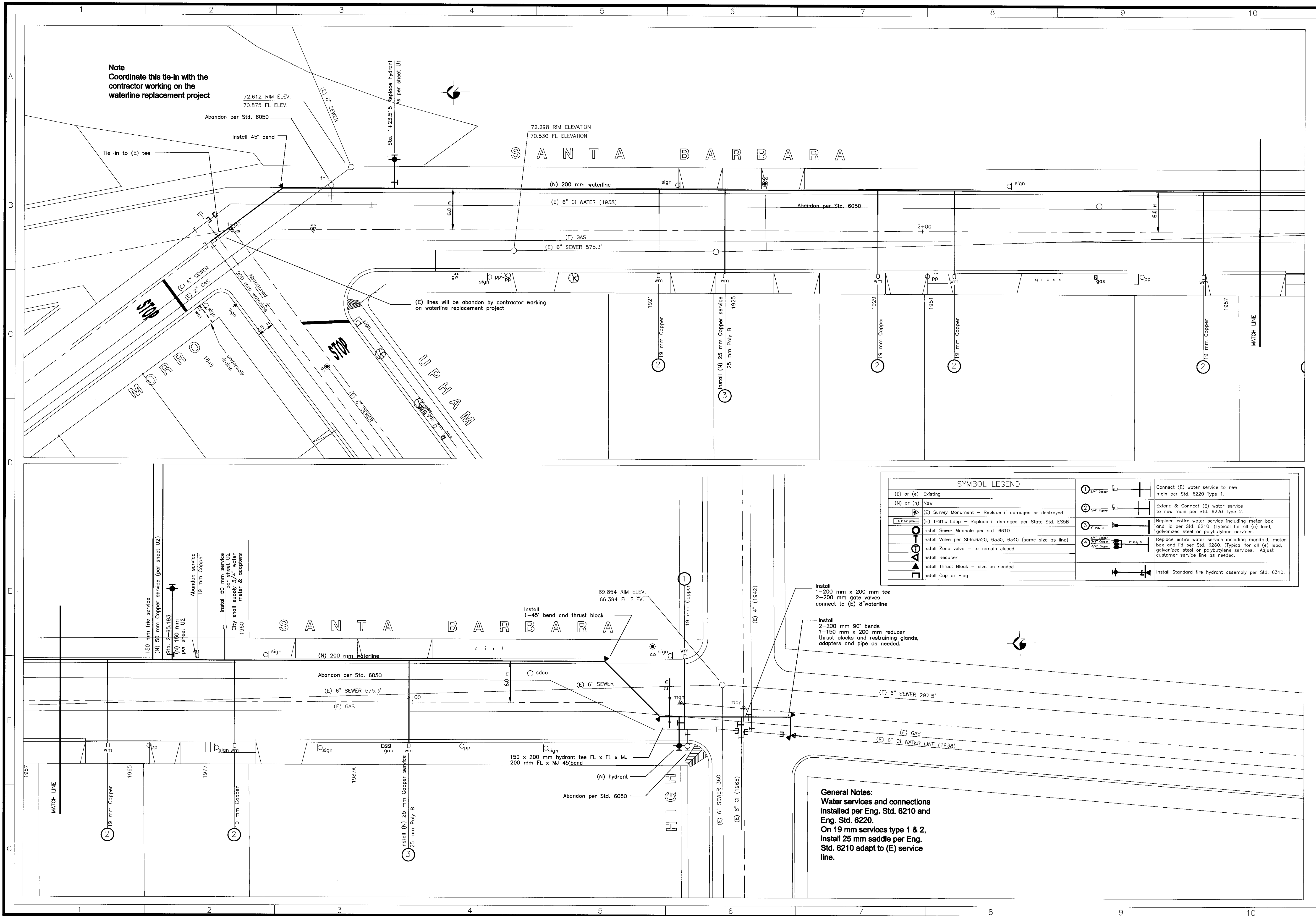
City Engineering Standards Exception: Approval of the service lateral extension from the public water main in Santa Barbara Ave. to the Freight Warehouse location. A vertical double-check assembly located at or within the building has been approved in-lieu of a horizontal double-check assembly located near the public street.

RECORD DRAWING
DATE: 05/20/02 BY: CSC



city of
san luis obispo

REVISIONS:	Record Drawing	Sheet Scale: 1"=50'
PROJECT TITLE: RAILROAD TRANSPORTATION CENTER		SHEET NO.: U2 A
DESIGNED BY: AJR/JMT		DATE: 04/28/00
DRAWN BY: AJR		CITY SPECIFICATION NO.: 99059B
CHECKED BY: JAN		
APPROVED BY: RLB		
DATE: 04/28/00		
CITY SPECIFICATION NO.: 99059B		
SHEET NO. U2 A		



city of
san luis obispo

Drawn By & Date
Record Drawing

Drawn By & Date
1:250
1:250

PROJECT TITLE:
RAILROAD TRANSPORTATION CENTER

SHEET TITLE:
ON-SITE AND OFF-SITE UTILITIES

DESIGNED BY:
RF

DRAWN BY:
SR

CHECKED BY:
RJ

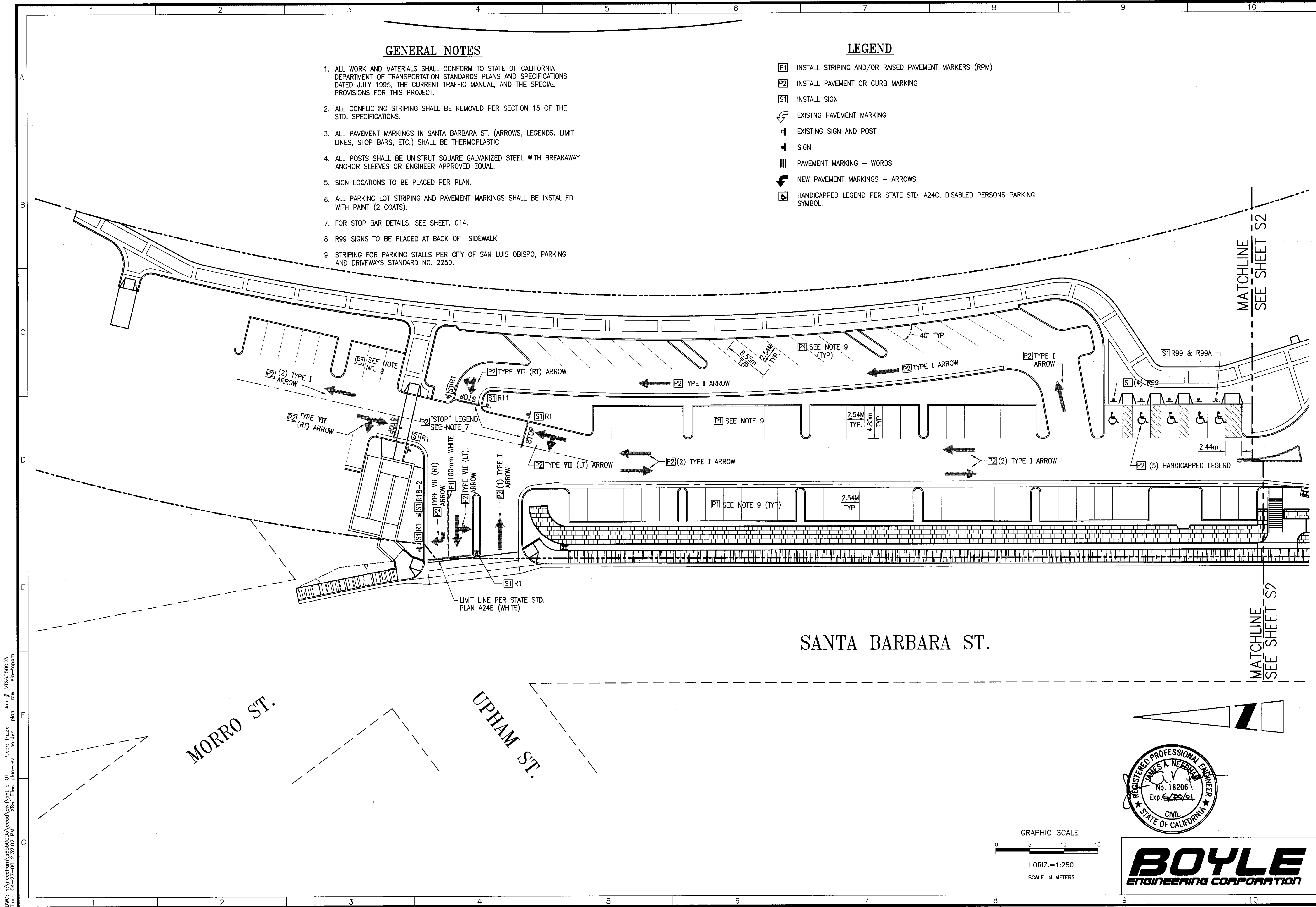
APPROVED BY:
WAG 5/16/00

DATE:
MAY 2000

CITY SPECIFICATION NO.
99059B

SHEET NO.
U3

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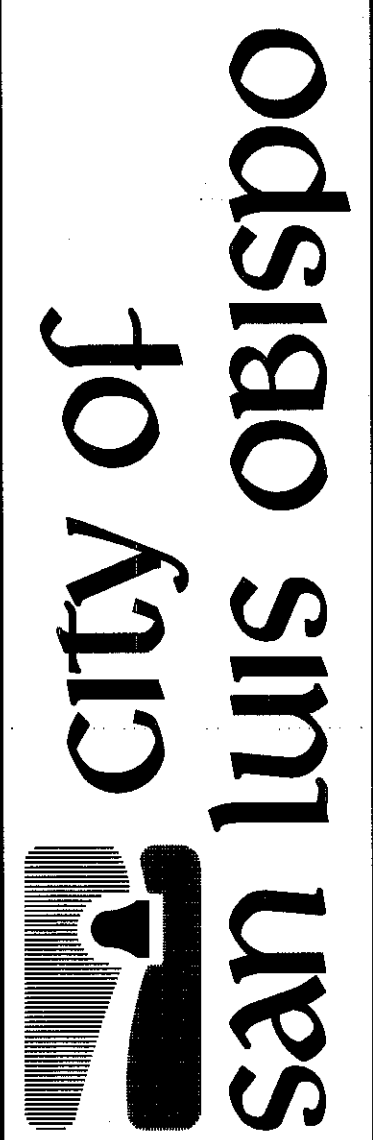


GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL CONFORM TO STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARDS PLANS AND SPECIFICATIONS DATED JULY 1995, THE CURRENT TRAFFIC MANUAL, AND THE SPECIAL PROVISIONS FOR THIS PROJECT.
2. ALL CONFLICTING STRIPING SHALL BE REMOVED PER SECTION 15 OF THE STD. SPECIFICATIONS.
3. ALL PAVEMENT MARKINGS IN SANTA BARBARA ST. (ARROWS, LEGENDS, LIMIT LINES, STOP BARS, ETC.) SHALL BE THERMOPLASTIC.
4. ALL POSTS SHALL BE UNISTRUT SQUARE GALVANIZED STEEL WITH BREAKAWAY ANCHOR SLEEVES OR ENGINEER APPROVED EQUAL.
5. SIGN LOCATIONS TO BE PLACED PER PLAN.
6. ALL PARKING LOT STRIPING AND PAVEMENT MARKINGS SHALL BE INSTALLED WITH PAINT (2 COATS).
7. FOR STOP BAR DETAILS, SEE SHEET. C14.
8. R99 SIGNS TO BE PLACED AT BACK OF SIDEWALK
9. STRIPING FOR PARKING STALLS PER CITY OF SAN LUIS OBISPO, PARKING AND DRIVEWAYS STANDARD NO. 2250.

LEGEND

- P1 INSTALL STRIPING AND/OR RAISED PAVEMENT MARKERS (RPM)
- P2 INSTALL PAVEMENT OR CURB MARKING
- S1 INSTALL SIGN
- EXISTNG PAVEMENT MARKING
- EXISTING SIGN AND POST
- SIGN
- PAVEMENT MARKING - WORDS
- NEW PAVEMENT MARKINGS - ARROWS
- HANDICAPPED LEGEND PER STATE STD. A24C, DISABLED PERSONS PARKING SYMBOL.



REVISIONS:

NO.	DESCRIPTION
1	Record Drawing

Scale: 1:250
N

PROJECT TITLE: RAILROAD TRANSPORTATION CENTER

SHEET TITLE: SIGNING AND STRIPING

DESIGNED BY: AJR/JMT

DRAWN BY: AJR

CHECKED BY: JAN

APPROVED BY: RLB

DATE: 04/28/00

CITY SPECIFICATION NO. 99059B

SHEET NO. S1

GRAPHIC SCALE

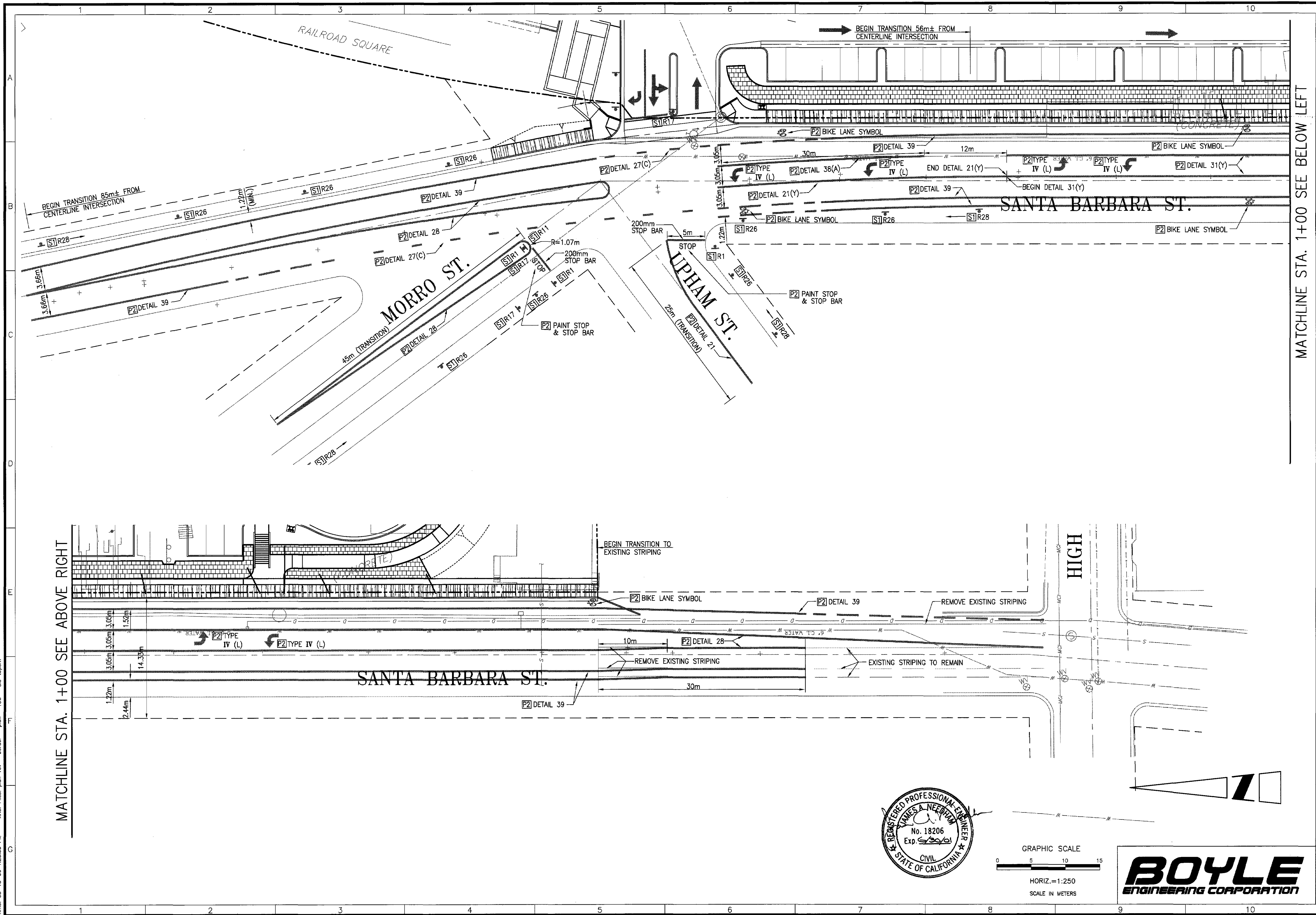
HORIZ. = 1:250

SCALE IN METERS

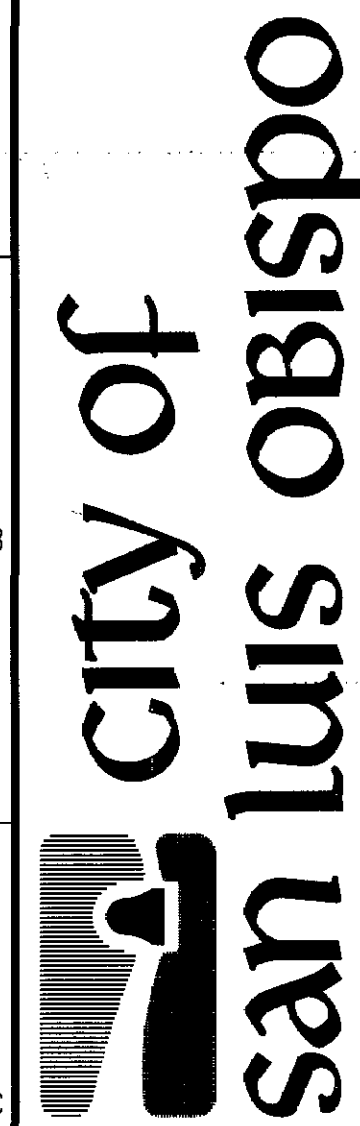
REGISTERED PROFESSIONAL ENGINEER
JAMES A. NEEDHAM
No. 18206
Exp. 6/30/01
CIVIL
STATE OF CALIFORNIA

BOYLE
ENGINEERING CORPORATION

DWG: H:\needham\66550003\acad\civil\st_03 User: drjones Job #: 035550003
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MATCHLINE STA. 1+00 SEE BELOW LEFT

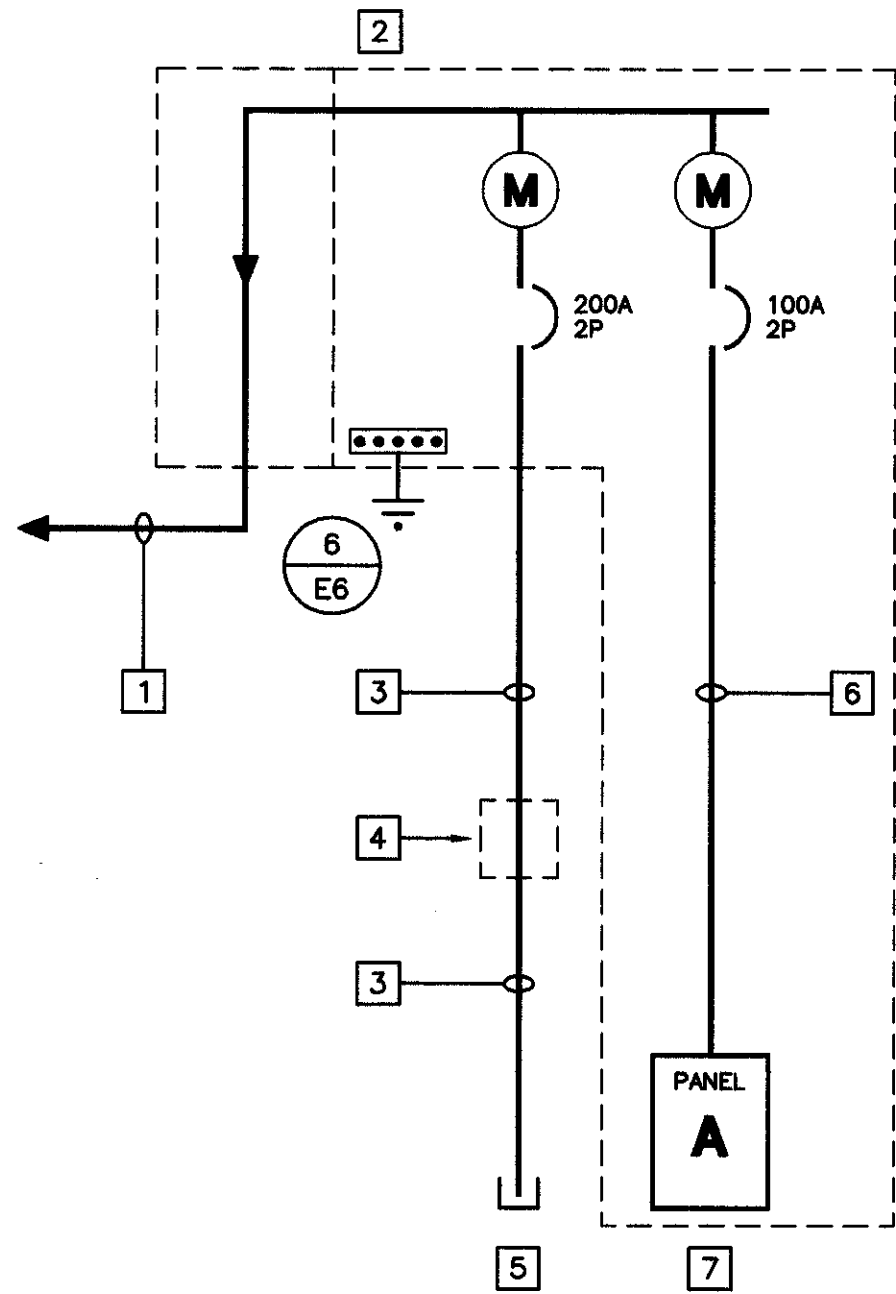


REVISIONS:	Record Drawing
DATE:	04/28/00
DRAWN BY:	AJR
CHECKED BY:	JAN
APPROVED BY:	RLB

PROJECT TITLE:
RAILROAD TRANSPORTATION CENTER

SHEET TITLE:
SIGNING AND STRIPING

SHEET NO.
S3



SINGLE LINE DIAGRAM NOTES:

- Service entrance equipment shall be in accordance with the serving electric utility company's requirements.
- The serving electric utility company's calculated maximum available short circuit current is 10,000 amperes RMS symmetrical. Service entrance and downstream equipment shall have a U.L. approved series rating equal to or greater than this available fault current. Label equipment accordingly when series ratings apply. If no series rating is available, equipment shall be fully-rated for available fault current.
- All conductors shall be copper with type THW or THWN insulation unless otherwise noted.
- Design shown is based on B-LINE product; Engineer-accepted equal alternate manufacturers are acceptable.

REFERENCE NOTES

- (1) 75 mm C. (P.G.&E. SECONDARY SERVICE) FROM EXISTING UTILITY POLE. (SEE "E-5")
- DUAL METER PEDESTAL (120/240V, 1Ø, 3 WIRE, STAINLESS STEEL ENCLOSURE, B-LINE "CM2P" SERIES OR EQUAL) SEE DETAIL 3/E-6.
- 50 mm C.
- 600 mm X 900 mm PULL BOX. (SEE E-5)
- STUB, CAP & MARK FOR FUTURE EXTENSION TO MUSEUM BUILDING REMODEL.
- (3) #2 THWN. CU.
- PANEL "A" (AND LIGHTING CONTROLS) INTEGRAL WITH METER PEDESTAL. SEE SCHEDULE.

SINGLE LINE DIAGRAM

LIGHTING FIXTURE SCHEDULE

TYPE	ILLUSTRATION	MANUFACTURER	CATALOG NO.	VOLTAGE	MAX. VA.	LAMPING	MOUNTING	DESCRIPTION
S1		ARCHITECTURAL AREA LIGHTING	(2) SLBBL22H4 FIXTURES, SLA20B-2 ARM, DB64R16-125 POLE	240	390	(2) 150W. HPS	CONC. BASE (SEE DETAIL)	DECORATIVE POST LIGHT (TWIN) TYPE 4
S2			(2) SLBBL22H3 FIXTURES, SLA20B-2 ARM, DB64R16-125 POLE		390	(2) 150W. HPS		DECORATIVE POST LIGHT (TWIN) TYPE 3
S3			(1) SLBBL22H3 FIXTURE, SLA20B ARM, DB64R16-125 POLE		195	(1) 150W. HPS		DECORATIVE POST LIGHT (SINGLE) TYPE 3
S4			(1) SLBBL22H55 FIXTURE, SLA20B ARM, DB64R16-125 POLE		195	(1) 150W. HPS		DECORATIVE POST LIGHT (SINGLE) TYPE 3 WITH HOUSE SIDE SHIELD
S5		McPHILBEN	940-U-13QF-LV-120-BLP	120	17	F13DDT	RECESSED SEE DETAIL 7/C12	STEP LIGHT

LEGEND

(NOTE: INTERPRET IN CONTEXT, NOT ALL SYMBOLS APPLY)

LIGHT FIXTURES

- CEILING SURFACEMOUNT
- WALL SURFACEMOUNT
- PENDANT MOUNT
- RECESSED DOWNLIGHT
- RECESSED WALLWASH
- RECESSED FLUOR.
- FLUOR. STRIP UON
- TRACK LIGHT
- DIRECTIONAL FLOOD
- EMERGENCY FIXTURE
- POLE LIGHT
- POLE LIGHT- DECORATIVE
- TANDEM-WIRED LAMPS
- BOLLARD
- EXIT LIGHT- WALL
- EXIT LIGHT- CEILING (ARROW INDICATES DIRECTION)
- LETTER ADJACENT INDICATES FIXTURE TYPE
- STREET LIGHT

MISCELLANEOUS

- MOTOR
- THERMOSTAT
- CIRCUIT BREAKER
- FUSIBLE SWITCH
- PHASE
- GROUND

CONDUIT/WIRE

- NEW
- NEW POWER HOMERUN (3 HOTS & NEUT SHOWN)
- ISOLATED GROUND
- EXISTING TO REMAIN
- (E) POWER HOMERUN
- CONDUIT STUB (W/MARKER)
- VERTICAL CONDUIT RUN
- CONDUIT SEAL
- FLEXIBLE CONNECTION
- LOW VOLTAGE
- SURFACEMOUNT RACEWAY

ABBREVIATIONS

- A AMPERE
- AF AMP FUSE RATING
- AFB ABOVE FINISH FLOOR
- AFG ABOVE FINISH GRADE
- AIC AMPERES INTERRUPT CAPACITY
- AS AMP SWITCH RATING
- BFG BELOW FINISH GRADE
- CB CIRCUIT BREAKER
- CEC CA. ELECTRICAL CODE
- CKT CIRCUIT
- C CONDUIT
- (E) EXISTING
- EC ELECTRICAL CONTRACTOR
- EF-# EXHAUST FAN
- (EXN) (E) IN (N) LOCATION
- (EXR) (E) TO BE (R)
- (F) FUTURE
- FA FIRE ALARM
- FACP FIRE ALARM CONTROL PANEL
- G GROUNDING CONDUCTOR
- GC GENERAL CONTRACTOR
- GFI GROUND FAULT CKT INTERRUPTER
- GND GROUND
- GRS GALVANIZED RIGID STEEL
- GWS GANGED WITH SWITCH
- IG ISOLATED GROUND
- LTG LIGHTING
- MC MECHANICAL CONTRACTOR
- MCB MAIN CIRCUIT BREAKER
- MLO MAIN LUGS ONLY
- MSB MAIN SWITCHBOARD
- MTTB MAIN TELEPHONE TERMINAL BOARD
- (N) NEW
- NIC NOT IN CONTRACT
- NL NIGHT LIGHT
- P POLE
- (R) RELOCATE(D)
- TBR TO BE REMOVED
- TYP TYPICAL
- UC UNDERCABINET
- UG UNDERGROUND
- UON UNLESS OTHERWISE NOTED
- V VOLT
- VA VOLT AMPERES
- W WATT, WIRE
- WP WEATHERPROOF (NEMA 3R)

GENERAL NOTES

- CODE COMPLIANCE: All work shall conform to and be performed in accordance with codes, standards, and ordinances as set forth by the authorities having jurisdiction and their latest adopted editions (in effect at time of building permit application) of the following publications:
(a) California Code of Regulations Title 24; includes 1998 California Electrical Code, Uniform Fire Code, Uniform Building Code, etc. with California and other local amendments as applicable.
(b) Americans with Disabilities Act (ADA)
- SAFETY: The Electrical Contractor is responsible to maintain all equipment in a safe and responsible manner. Keep dead front equipment in place while equipment is energized. Conduct all construction operations in a safe manner for employees as well as other workpersons or anyone visiting the job site. Provide barriers, flags, tape, etc. as required for safety. The Contractor shall hold all parties harmless of negligent safety practices which may cause injury to others on or near the job site.
- MOUNTING HEIGHTS to centerline above finish floor shall be as follows unless otherwise noted:
+40.6cm (16") AFF: receptacles, telephone, TV & data outlets.
Before rough-in, verify all mounting heights and exact locations for all equipment electrical connections, stub-ups, etc. with Owner.
- LABEL panels, cabinets, backboards, main devices, safety switches, contactors and other specifically designated equipment shown on plans. Use engraved laminated plastic nameplates attached by screws or rivets. Neatly and indelibly label conduit destinations on both visible ends of conduit runs where conduits terminate at designated enclosures, structures or equipment (including pull and splice boxes).
- UTILITY COMPANY CONTACTS: Before construction, coordinate & verify all utility company requirements:
PG&E SLO JIM HAAS 805-546-5234
PAC BELL Central HAL SALMON 805-546-7462
- GENERAL CONTRACTOR WORK includes but is not necessarily limited to the following:
a. Concrete pole bases including rebar; also anchor bolt (provided by Electrical Contractor) placement for light fixture poles.
- EQUIPMENT GROUNDING CONDUCTORS shall be installed in ALL raceways.
- MINIMUM CONDUIT SIZE shall be 1.3cm (1/2") except use minimum 1.9cm (3/4") for underslab homeruns and below grade outside of building exterior walls. Run exposed conduit square and plumb with building lines.
- PULLROPS: Any raceway without cable or wire shall be installed with minimum 440.92kilograms (200 pound) test pull line and larger if required by serving utility company.
- ANY DEMOLITION WORK SHOWN was prepared for the convenience of the Contractor. The Engineer does not represent that all items which may require demolition have been shown. It shall be the responsibility of the Contractor to carefully examine the site and the contract documents and to perform all demolition and reconstruction which may be required for the proper execution and completion of the work. All work designated "to be removed" is by this contractor.
- EXISTING CONDITIONS: Information shown for existing conditions was primarily gained from "as built" drawings and/or limited field investigation. Before bid, visit site to verify existing conditions and make allowance for variations from that shown.

SEE NOTE	125A,120/240V,3W MLO	00-8049		LOCATION: INTERGRAL		SEE NOTE			
	24 FULL SIZE PLUG-ON CB SPACES	A		W/ METER CAB					
	WITH EQUIP'T GND BUS								
CKT #	DESCRIPTION	AMP CB #	WIRE SIZE	PHASE A VA	PHASE B VA	WIRE SIZE	AMP CB #	DESCRIPTION	CKT #
1	LIGHTS - POST LIGHTS	20	10	1140		12	20	RECEPT	2
3		2		180			1		
5	- POST LIGHTS	20	8	780	1140			IRRIGATION CONTROLLER	4
7		2		120	300				
9	- POST LIGHTS	20	8	380		10		LIGHTS - STEPS	6
11		2		475	780	6		- RAMP	8
13	- POST LIGHTS	20	8	380	240	8	20	- POST LIGHTS	10
15		2			475		2		12
17	SPACE					8	20	- POST LIGHTS	14
19		2		380					16
21				380					18
23								SPACE	20
									22
									24
CONNECTED LOAD (VA) =				3815	4055				
25% OF CONTINUOUS LOAD =				285	0				
TOTAL (VA) =				4100	4055				
TOTAL ÷ 120 VOLT =				34 A	34 A				

PANEL SCHEDULE NOTES:

- LONG CONTINUOUS LOAD (LCL). ADDITIONAL 25% ADDED AT BOTTOM OF SCHEDULE.
- THROUGH LIGHTING CONTROLS. SEE DETAIL 5/E6.

Thoma
ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empero St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

REGISTERED PROFESSIONAL ENGINEER
WILLIAM A. THOMA
No. 19757
ELECTRICAL
STATE OF CALIFORNIA
EXPIRES: 6/30/01
THOMA #00-8049

BOYLE
ENGINEERING CORPORATION

city of
san luis obispo

RAILROAD TRANSPORTATION CENTER

GENERAL NOTES, LEGEND, SINGLE LINE DIAGRAM

DESIGNED BY:

JD

DRAWN BY:

MW

CHECKED BY:

JD

APPROVED BY:

-

DATE:

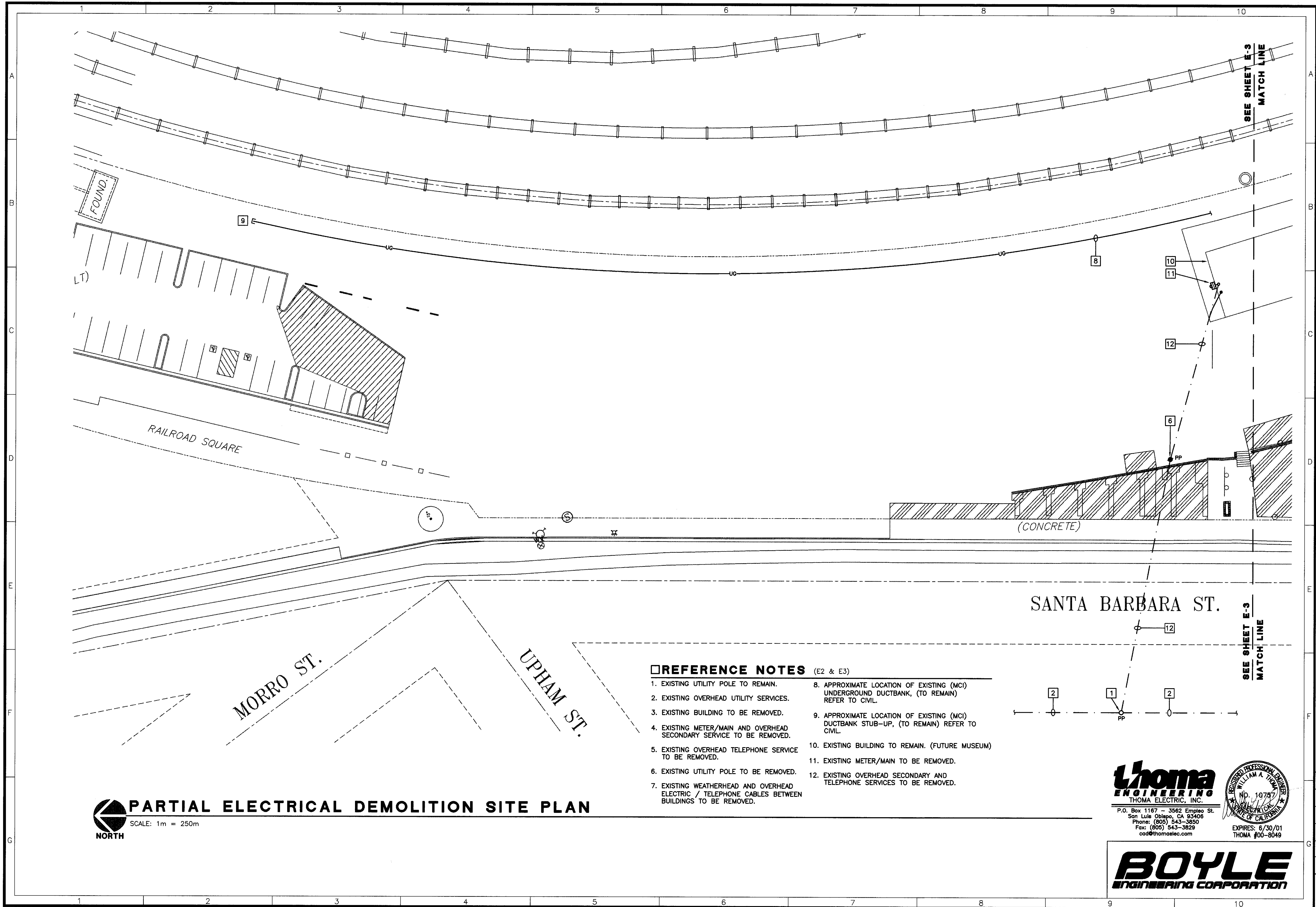
01/04/00

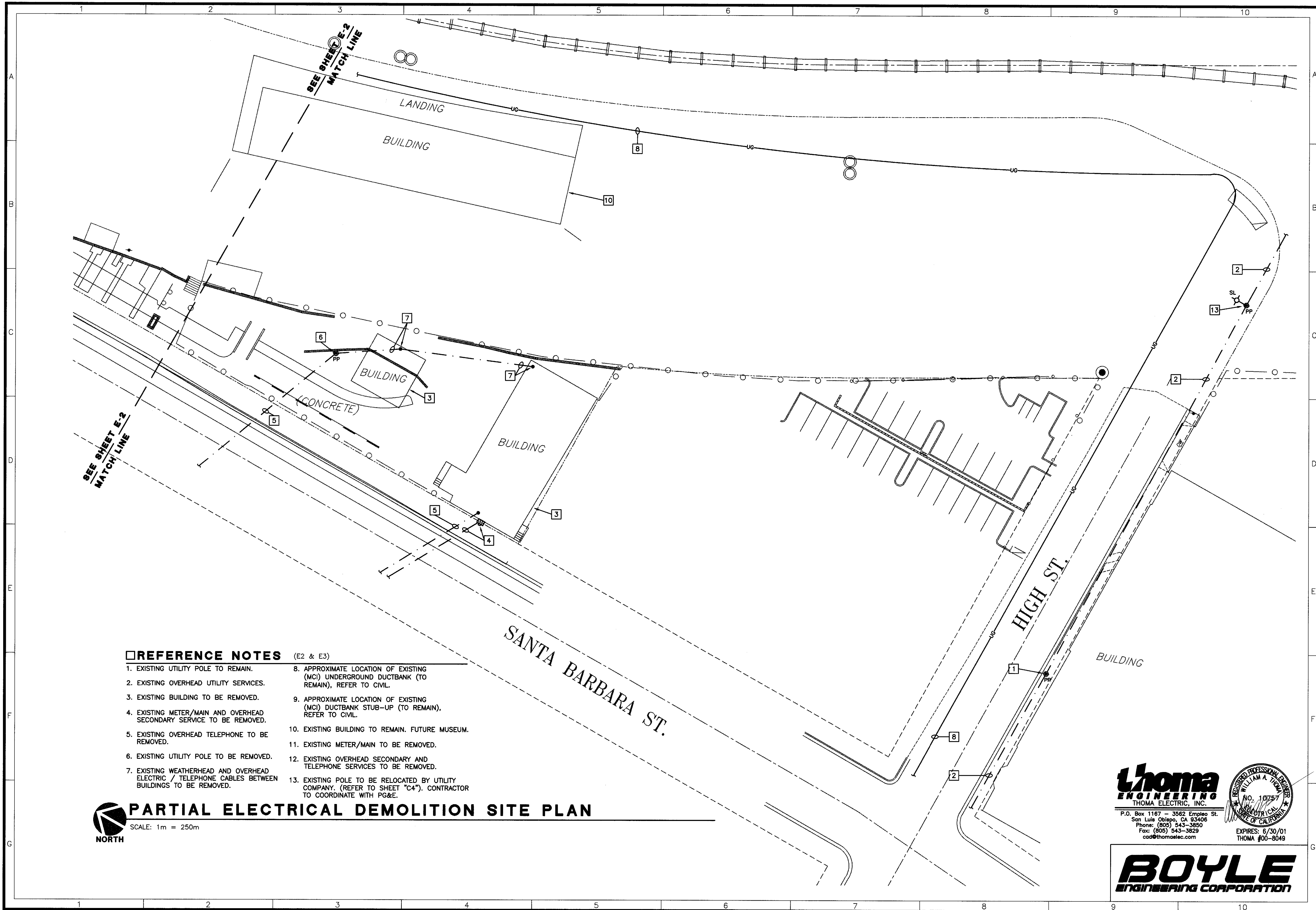
CITY SPECIFICATION NO.

99-059B

SHEET NO.

E1





REFERENCE NOTES

(E2 & E3)

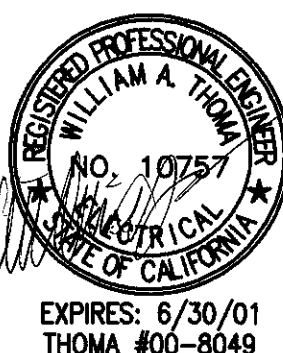
- | | |
|---|--|
| 1. EXISTING UTILITY POLE TO REMAIN. | 8. APPROXIMATE LOCATION OF EXISTING (MCI) UNDERGROUND DUCTBANK (TO REMAIN), REFER TO CIVIL. |
| 2. EXISTING OVERHEAD UTILITY SERVICES. | 9. APPROXIMATE LOCATION OF EXISTING (MCI) DUCTBANK STUB-UP (TO REMAIN), REFER TO CIVIL. |
| 3. EXISTING BUILDING TO BE REMOVED. | 10. EXISTING BUILDING TO REMAIN. FUTURE MUSEUM. |
| 4. EXISTING METER/MAIN AND OVERHEAD SECONDARY SERVICE TO BE REMOVED. | 11. EXISTING METER/MAIN TO BE REMOVED. |
| 5. EXISTING OVERHEAD TELEPHONE TO BE REMOVED. | 12. EXISTING OVERHEAD SECONDARY AND TELEPHONE SERVICES TO BE REMOVED. |
| 6. EXISTING UTILITY POLE TO BE REMOVED. | 13. EXISTING POLE TO BE RELOCATED BY UTILITY COMPANY. (REFER TO SHEET "C4"). CONTRACTOR TO COORDINATE WITH PG&E. |
| 7. EXISTING WEATHERHEAD AND OVERHEAD ELECTRIC / TELEPHONE CABLES BETWEEN BUILDINGS TO BE REMOVED. | |



PARTIAL ELECTRICAL DEMOLITION SITE PLAN

SCALE: 1m = 250m

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Fax: (805) 543-3829
cad@thomaelec.com



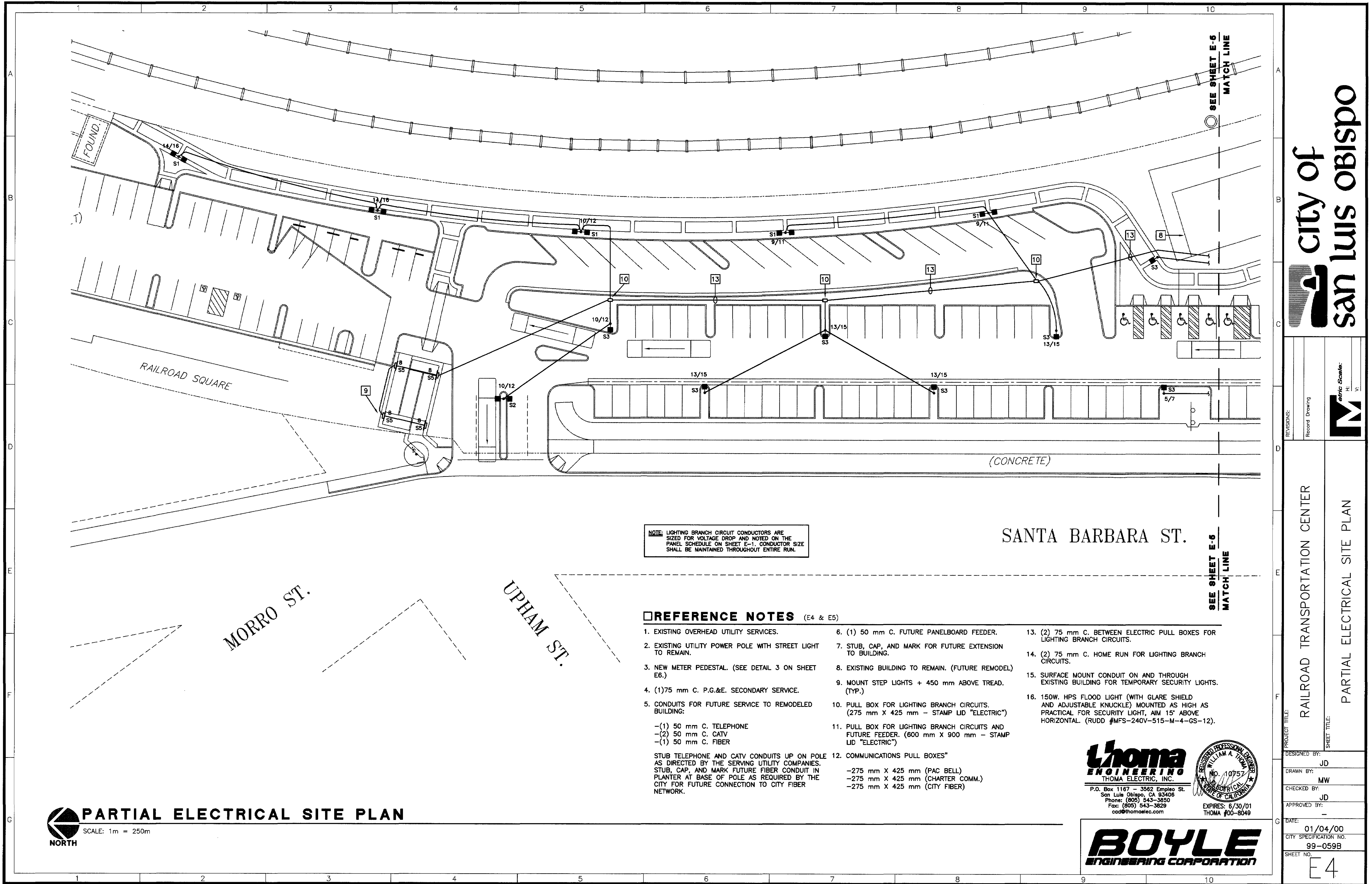
BOYLE
ENGINEERING CORPORATION

city of
san luis obispo

REVISIONS:
Record Drawing
Scale: 1" = 100'

PROJECT TITLE:
RAILROAD TRANSPORTATION CENTER
SHEET TITLE:
PARTIAL ELECTRICAL DEMOLITION SITE PLAN

DESIGNED BY: JD
DRAWN BY: MW
CHECKED BY: JD
APPROVED BY: -
DATE: 01/04/00
CITY SPECIFICATION NO.: 99-059B
SHEET NO.: E3



NOTE: LIGHTING BRANCH CIRCUIT CONDUCTORS ARE SIZED FOR VOLTAGE DROP AND NOTED ON THE PANEL SCHEDULE ON SHEET E-1. CONDUCTOR SIZE SHALL BE MAINTAINED THROUGHOUT ENTIRE RUN.

REFERENCE NOTES (E4 & E5)

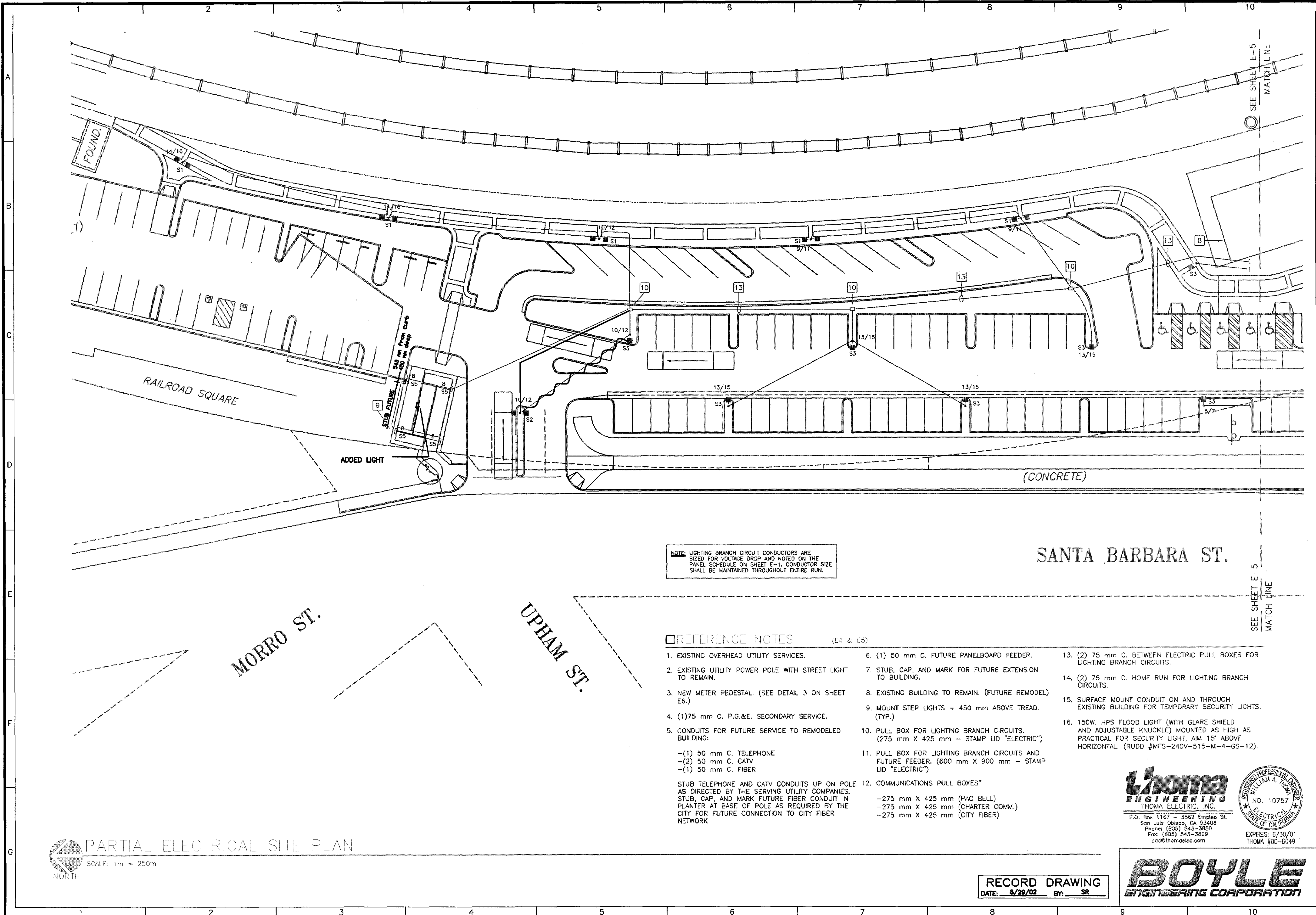
- EXISTING OVERHEAD UTILITY SERVICES.
- EXISTING UTILITY POWER POLE WITH STREET LIGHT TO REMAIN.
- NEW METER PEDESTAL. (SEE DETAIL 3 ON SHEET E6.)
- (1) 75 mm C. P.G.&E. SECONDARY SERVICE.
- CONDUITS FOR FUTURE SERVICE TO REMODELED BUILDING:
 - (1) 50 mm C. TELEPHONE
 - (2) 50 mm C. CATV
 - (1) 50 mm C. FIBER
- STUB, CAP, AND MARK FOR FUTURE EXTENSION TO BUILDING.
- EXISTING BUILDING TO REMAIN. (FUTURE REMODEL)
- MOUNT STEP LIGHTS + 450 mm ABOVE TREAD. (TYP.)
- PULL BOX FOR LIGHTING BRANCH CIRCUITS. (275 mm X 425 mm - STAMP LID "ELECTRIC")
- PULL BOX FOR LIGHTING BRANCH CIRCUITS AND FUTURE FEEDER. (600 mm X 900 mm - STAMP LID "ELECTRIC")
- COMMUNICATIONS PULL BOXES"
 - 275 mm X 425 mm (PAC BELL)
 - 275 mm X 425 mm (CHARTER COMM.)
 - 275 mm X 425 mm (CITY FIBER)
- (1) 50 mm C. FUTURE PANELBOARD FEEDER.
- (2) 75 mm C. BETWEEN ELECTRIC PULL BOXES FOR LIGHTING BRANCH CIRCUITS.
- (2) 75 mm C. HOME RUN FOR LIGHTING BRANCH CIRCUITS.
- SURFACE MOUNT CONDUIT ON AND THROUGH EXISTING BUILDING FOR TEMPORARY SECURITY LIGHTS.
- 150W. HPS FLOOD LIGHT (WITH GLARE SHIELD AND ADJUSTABLE KNUCKLE) MOUNTED AS HIGH AS PRACTICAL FOR SECURITY LIGHT, MIN 15' ABOVE HORIZONTAL. (RUDD #MFS-240V-515-M-4-GS-12).

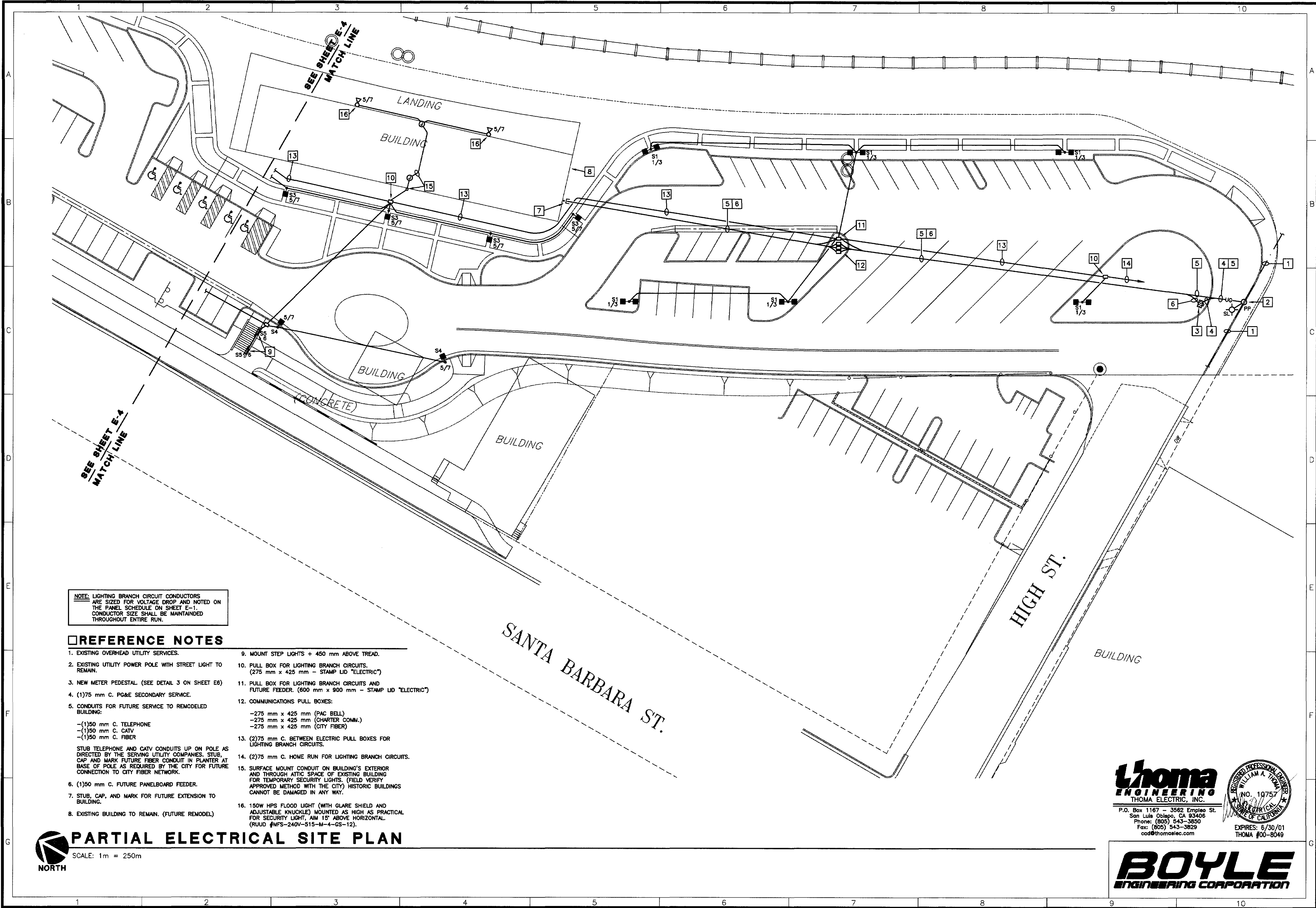
STUB TELEPHONE AND CATV CONDUITS UP ON POLE AS DIRECTED BY THE SERVING UTILITY COMPANIES. STUB, CAP, AND MARK FUTURE FIBER CONDUIT IN PLANTER AT BASE OF POLE AS REQUIRED BY THE CITY FOR FUTURE CONNECTION TO CITY FIBER NETWORK.

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REGISTERED PROFESSIONAL ENGINEER
WILLIAM A. THOMA
No. 10757
STATE OF CALIFORNIA
EXPIRES: 6/30/01
THOMA #00-8049

BOYLE
ENGINEERING CORPORATION





NOTE: LIGHTING BRANCH CIRCUIT CONDUCTORS ARE SIZED FOR VOLTAGE DROP AND NOTED ON THE PANEL SCHEDULE ON SHEET E-1. CONDUCTOR SIZE SHALL BE MAINTAINED THROUGHOUT ENTIRE RUN.

REFERENCE NOTES

- EXISTING OVERHEAD UTILITY SERVICES.
- EXISTING UTILITY POWER POLE WITH STREET LIGHT TO REMAIN.
- NEW METER PEDESTAL. (SEE DETAIL 3 ON SHEET E6)
- (1)75 mm C. PG&E SECONDARY SERVICE.
- CONDUITS FOR FUTURE SERVICE TO REMODELED BUILDING:
 - (1)50 mm C. TELEPHONE
 - (1)50 mm C. CATV
 - (1)50 mm C. FIBERSTUB TELEPHONE AND CATV CONDUITS UP ON POLE AS DIRECTED BY THE SERVING UTILITY COMPANIES. STUB, CAP AND MARK FUTURE FIBER CONDUIT IN PLANTER AT BASE OF POLE AS REQUIRED BY THE CITY FOR FUTURE CONNECTION TO CITY FIBER NETWORK.
- (1)50 mm C. FUTURE PANELBOARD FEEDER.
- STUB, CAP, AND MARK FOR FUTURE EXTENSION TO BUILDING.
- EXISTING BUILDING TO REMAIN. (FUTURE REMODEL)
- MOUNT STEP LIGHTS + 450 mm ABOVE TREAD.
- PULL BOX FOR LIGHTING BRANCH CIRCUITS. (275 mm x 425 mm - STAMP LID "ELECTRIC")
- PULL BOX FOR LIGHTING BRANCH CIRCUITS AND FUTURE FEEDER. (800 mm x 900 mm - STAMP LID "ELECTRIC")
- COMMUNICATIONS PULL BOXES:
 - 275 mm x 425 mm (PAC BELL)
 - 275 mm x 425 mm (CHARTER COMM.)
 - 275 mm x 425 mm (CITY FIBER)
- (2)75 mm C. BETWEEN ELECTRIC PULL BOXES FOR LIGHTING BRANCH CIRCUITS.
- (2)75 mm C. HOME RUN FOR LIGHTING BRANCH CIRCUITS.
- SURFACE MOUNT CONDUIT ON BUILDING'S EXTERIOR AND THROUGH ATTIC SPACE OF EXISTING BUILDING FOR TEMPORARY SECURITY LIGHTS. (FIELD VERIFY APPROVED METHOD WITH THE CITY) HISTORIC BUILDINGS CANNOT BE DAMAGED IN ANY WAY.
- 150W HPS FLOOD LIGHT (WITH GLARE SHIELD AND ADJUSTABLE KNUCKLE) MOUNTED AS HIGH AS PRACTICAL FOR SECURITY LIGHT. MIN 15' ABOVE HORIZONTAL. (RUUD #NFS-240V-515-M-4-GS-12).

PARTIAL ELECTRICAL SITE PLAN

SCALE: 1m = 250m

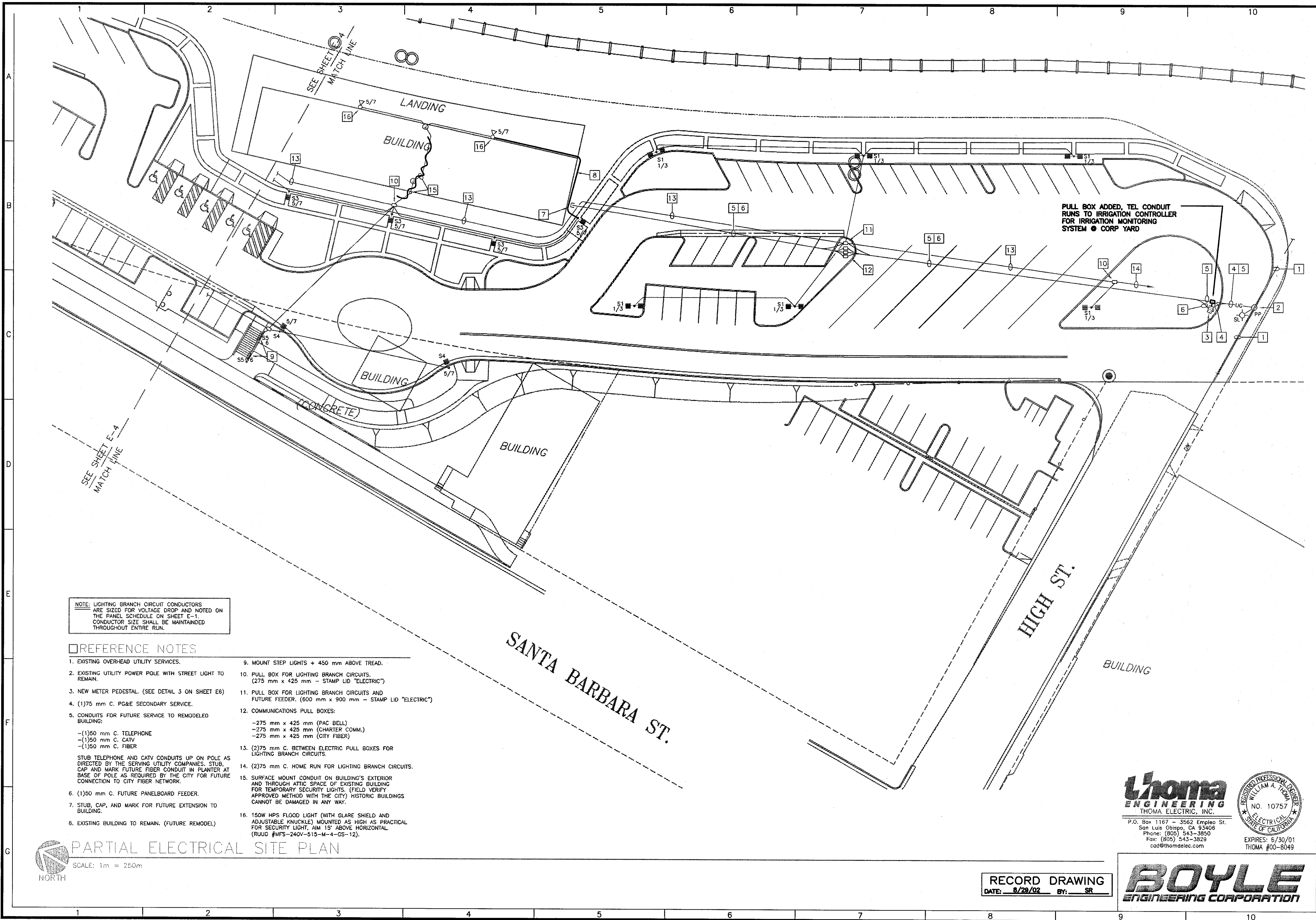
Thoma
ENGINEERING
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STATE OF CALIFORNIA
EXPIRES: 6/30/01
THOMA #00-8049

BOYLE
ENGINEERING CORPORATION

city of
san luis obispo

REVISIONS:	Record Drawing	etric Scale: in: v:
PROJECT TITLE: RAILROAD TRANSPORTATION CENTER		SHEET TITLE: PARTIAL ELECTRICAL SITE PLAN
DESIGNED BY: JD		
DRAWN BY: MW		CHECKED BY: JD
APPROVED BY:		DATE: 01/04/00
CITY SPECIFICATION NO. 99-059B		SHEET NO. E5



city of

san luis obispo

REVISIONS:

Record Drawing

PROJECT TITLE:

RAILROAD TRANSPORTATION CENTER

DESIGNED BY:

JD

DRAWN BY:

MW

CHECKED BY:

JD

APPROVED BY:

DATE:

01/04/00

CITY SPECIFICATION NO.

99-059B

SHEET NO.

E5A

Partial Electrical Site Plan

BOYLE ENGINEERING CORPORATION

DATE: 8/28/02

BY: SR

SCALE: 1m = 250mm

SCALE: 1" = 25'-0"

THOMA ENGINEERING

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Fax: (805) 543-3829

cad@thomaelec.com

EXPIRES: 6/30/01

THOMA #00-8049

REGISTERED PROFESSIONAL DESIGNER

WILLIAM A. THOMA

NO. 10757

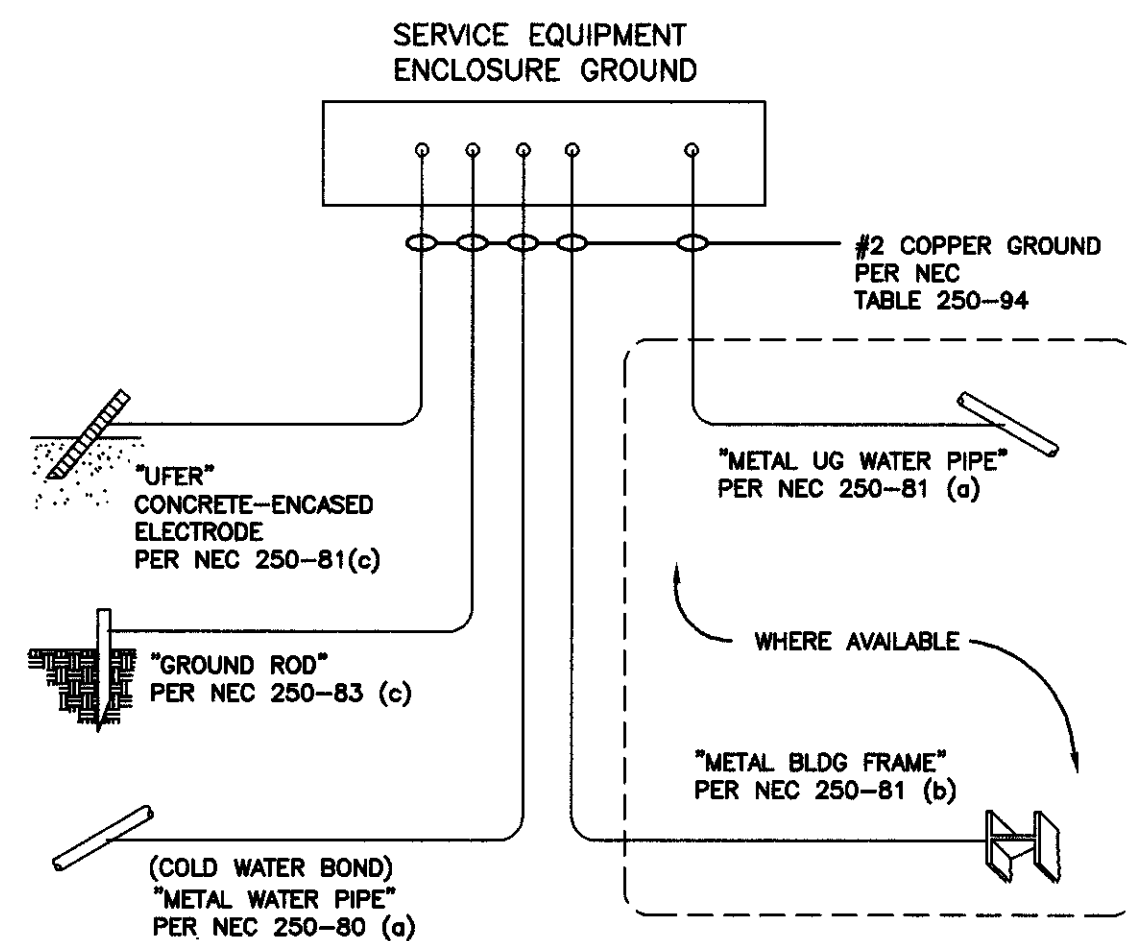
ELECTRICAL

STATE OF CALIFORNIA

EXPIRES: 6/30/01

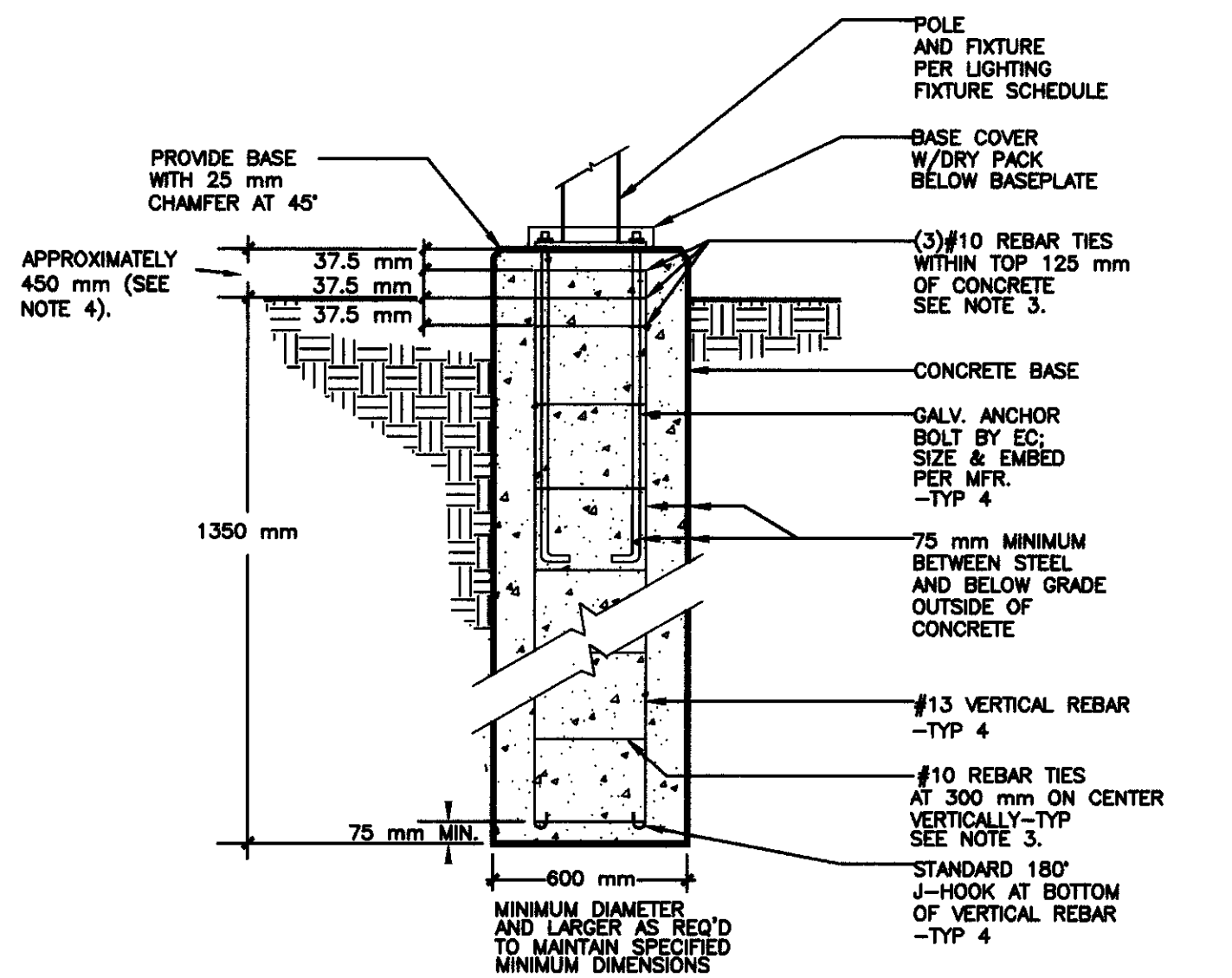
THOMA #00-8049

0106 B



6 GROUND/BOND DETAIL

NTS

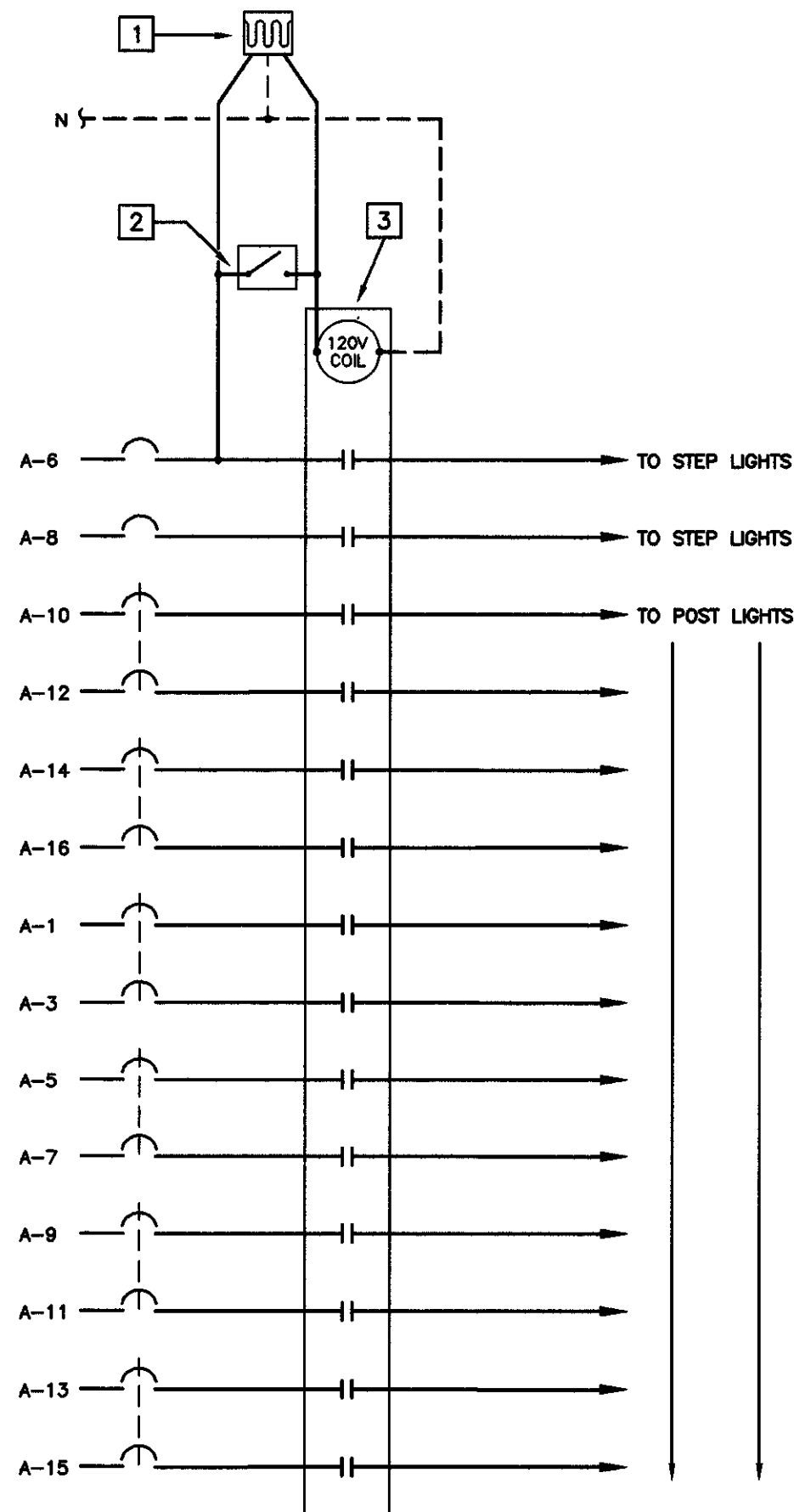


NOTES:

1. GALV. ANCHOR BOLTS & TEMPLATE FURNISHED BY EC; BOLTS INSTALLED AND CONCRETE BASE FURNISHED AND INSTALLED WITH REBAR BY GC.
2. CONDUIT SHALL BE 20 mm MINIMUM SIZE AND MINIMUM 600 mm BELOW FINISH GRADE.
3. TIES SHALL HAVE AT EACH END A 135 DEGREE HOOK BEND WITH A SIX-BAR DIAMETER BUT NOT LESS THAN 75 mm EXTENSION THAT ENGAGES THE LONGITUDINAL REINFORCEMENT AND PROJECTS INTO THE INTERIOR OF THE STIRRUP OR HOOP.
4. HEIGHT OF BASE ABOVE GRADE IS APPROXIMATELY 450 mm, AS REQUIRED TO MOUNT BOTTOM OF FIXTURE AT 4800 mm AFG. MAXIMUM OVERALL HEIGHT OF FIXTURE ASSEMBLY (POLE, BRACKET, ETC.) CANNOT EXCEED 6000 mm AFG.

4 FIXTURE TYPES 'S1' THROUGH 'S4' MOUNTING DETAIL

NTS

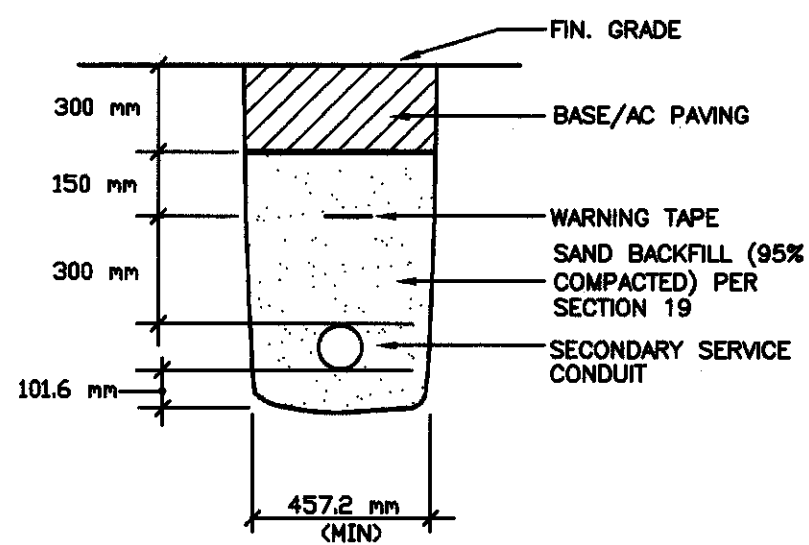


5 LIGHTING CONTROL DIAGRAM

NTS

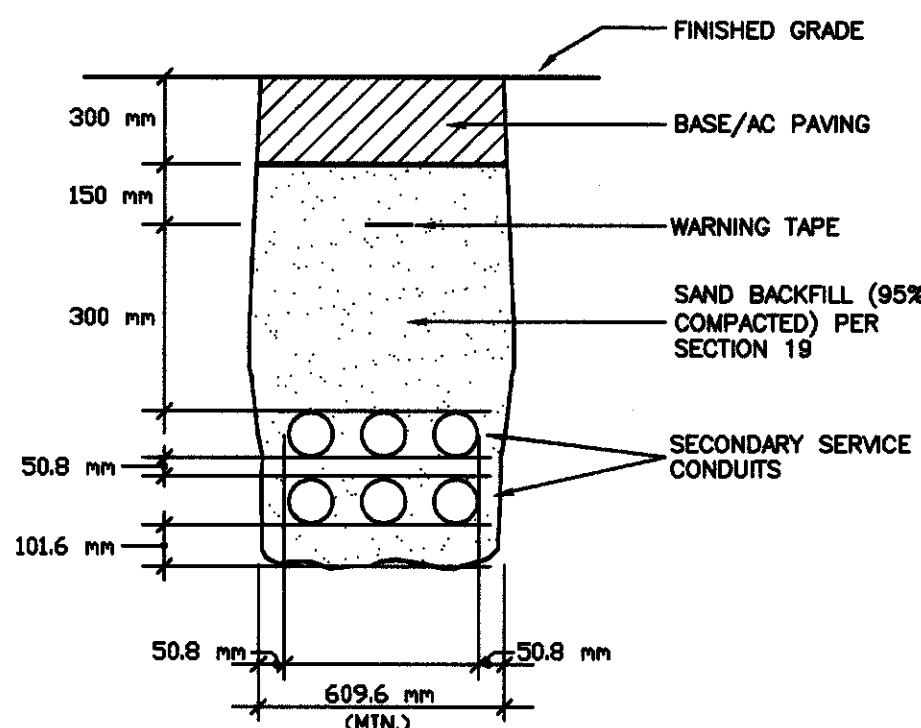
REFERENCE NOTES

1. PHOTO ELECTRIC CELL THROUGH SIDE OF METERING ENCLOSURE.
2. SPST SWITCH IN METERING ENCLOSURE. LABEL PLATE "PHOTOCELL BY-PASS".
3. LIGHTING CONTACTOR(S) AS REQUIRED IN METERING ENCLOSURE.



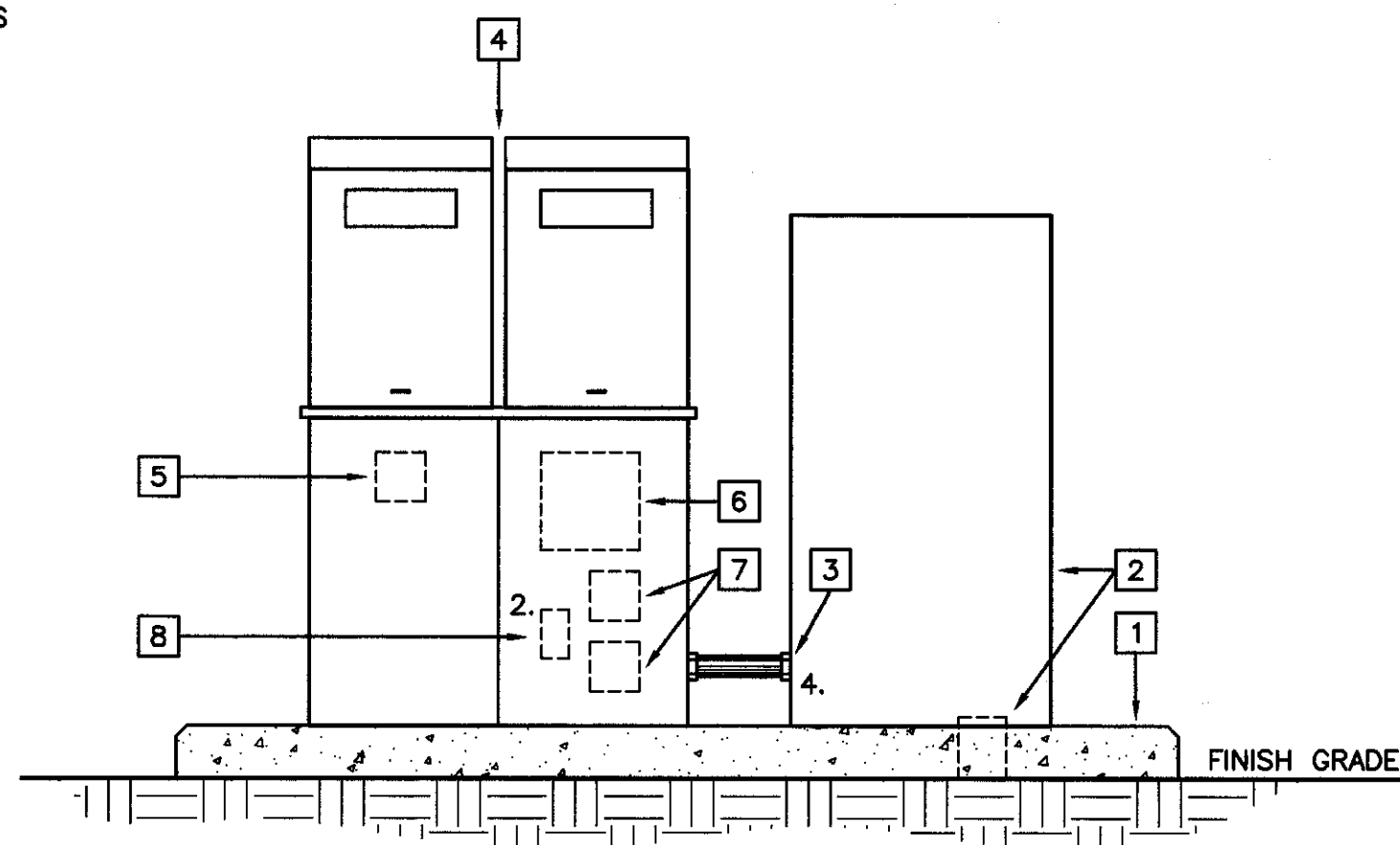
1 SECONDARY SERVICE CONDUIT TRENCH DETAIL

NTS



2 TYPICAL FEEDER/BRANCH CIRCUIT CONDUIT TRENCH DETAIL

NTS



REFERENCE NOTES

1. CONC. PAD WITH CHAMFERRED EDGE. COORDINATE MINIMUM REQUIRED DIMENSIONS FOR APPROVED EQUIPMENT.
2. IRRIGATION CONTROLLER BY OTHERS, EC TO CONNECT. PROVIDE 50 mm PVC SWEEP TO BEYOND PAD FOR LV CONTROL CONDUCTORS.
3. GRS NIPPLE BETWEEN FOR BRANCH CIRCUIT.
4. DUAL METER PEDESTAL. (SEE SINGLE LINE) B-LINE "CM2P" SERIES OR EQUAL.
5. MAIN BREAKER ONLY FOR REMODEL OF FUTURE BUILDING.
6. INTEGRAL PANEL "A". (SEE SCHEDULE)
7. LIGHTING CONTROLS. (SEE DIAGRAM)
8. GFCI RECEPTACLE.

3 FRONT ELEVATION OF METERING EQUIP. AND IRRIGATION CONTROLLER

NTS

Thoma
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REGISTERED PROFESSIONAL ENGINEER
WILLIAM A. THOMA
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STATE OF CALIFORNIA
EXPIRES: 6/30/01
THOMA #00-8049

BOYLE
ENGINEERING CORPORATION

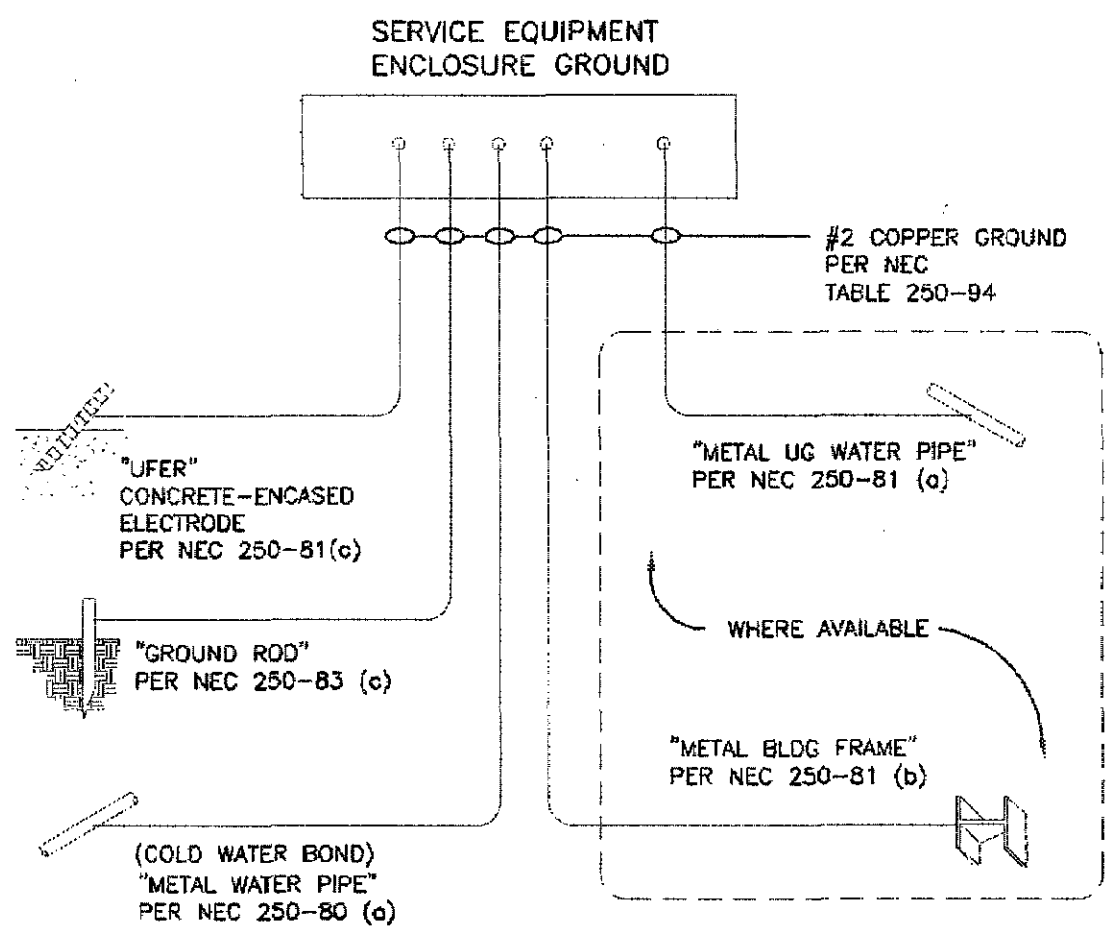
city of
san luis obispo

REVISIONS:
Record Drawing
Scale: 1/4" = 1'-0"

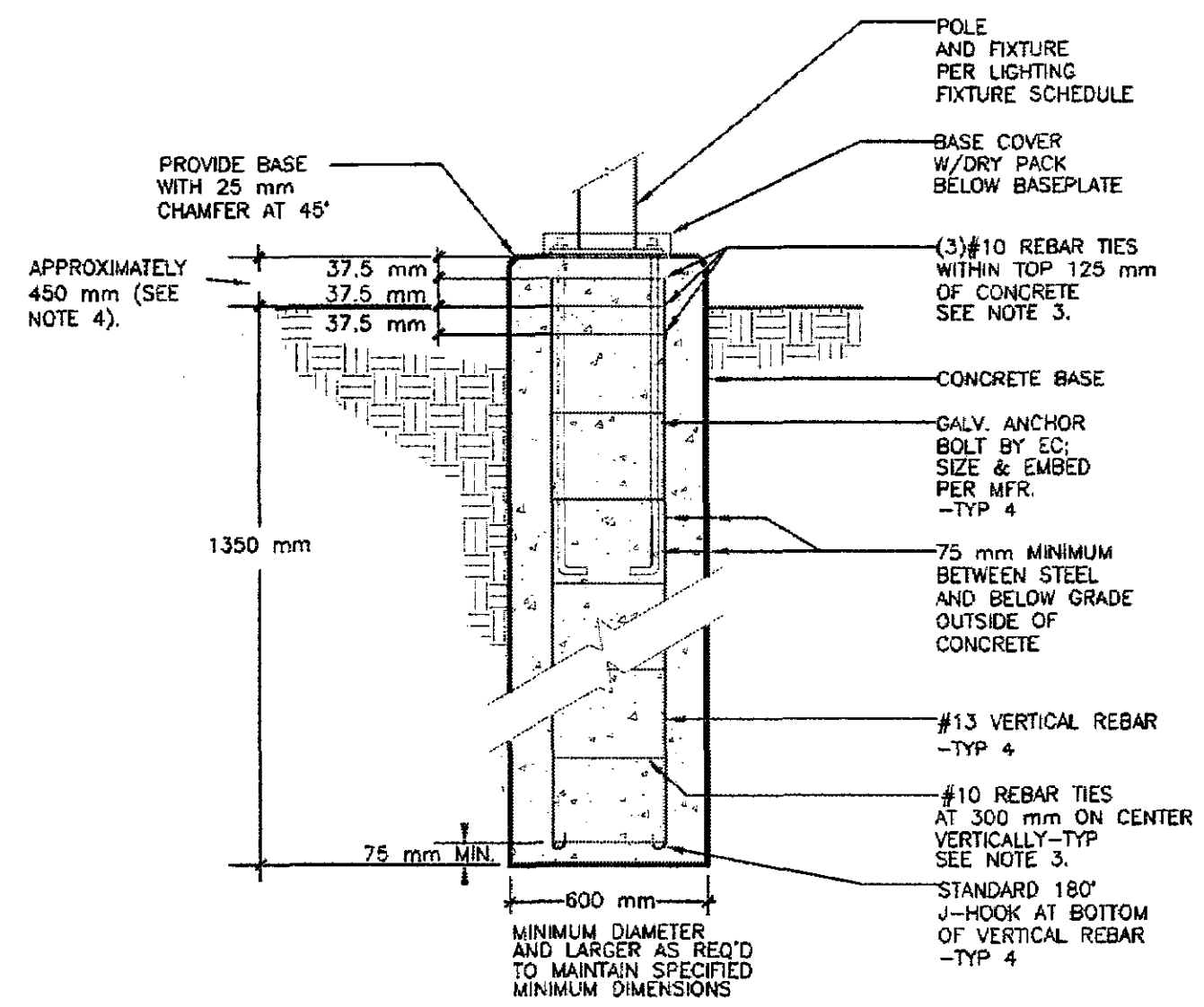
PROJECT TITLE:
RAILROAD TRANSPORTATION CENTER

SHEET TITLE:
DETAILS, SCHEDULES

DESIGNED BY: JD
DRAWN BY: MW
CHECKED BY: JD
APPROVED BY: -
DATE: 01/04/00
CITY SPECIFICATION NO. 99-059B
SHEET NO. E6

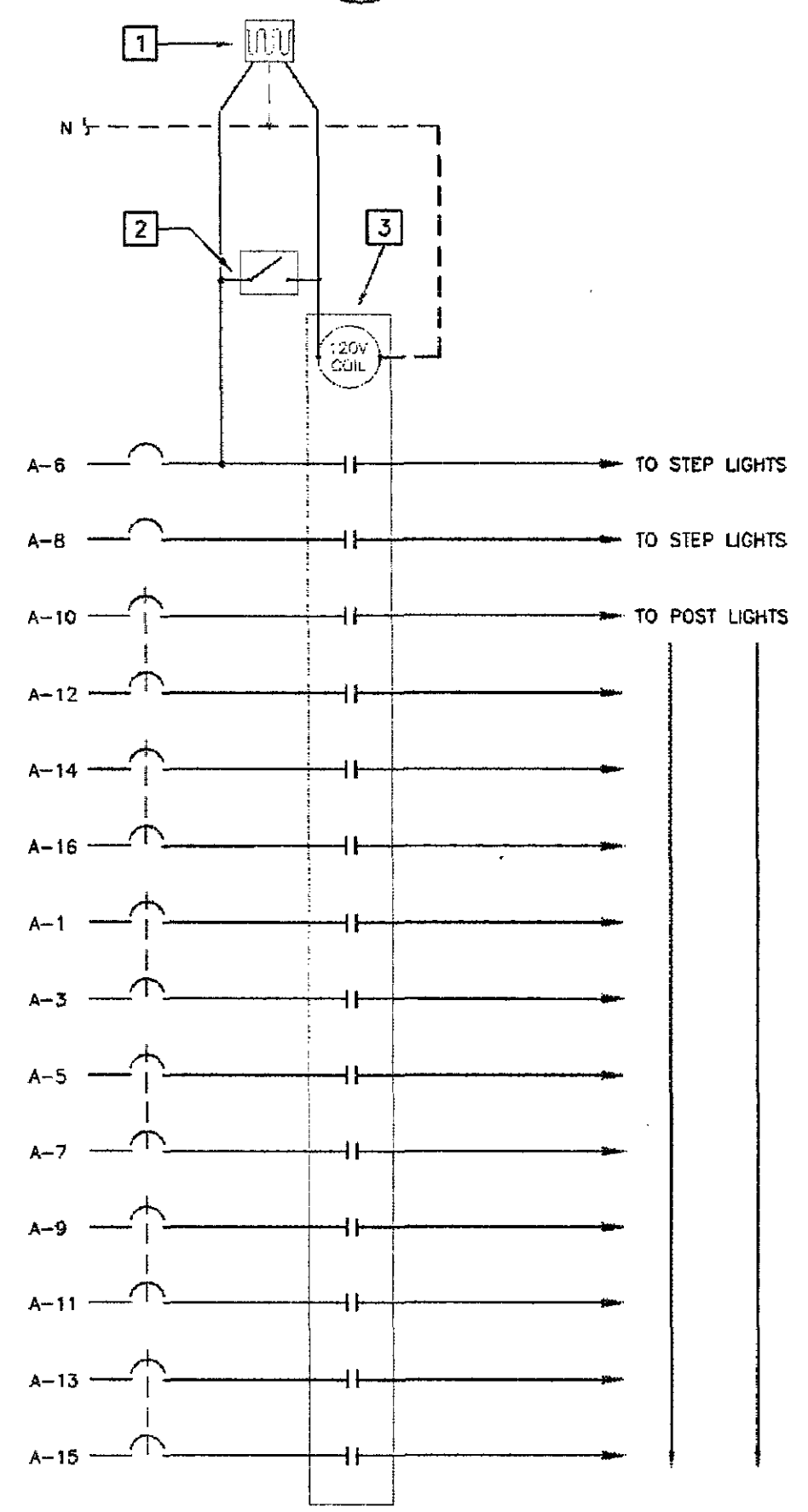


6 GROUND/BOND DETAIL
NTS

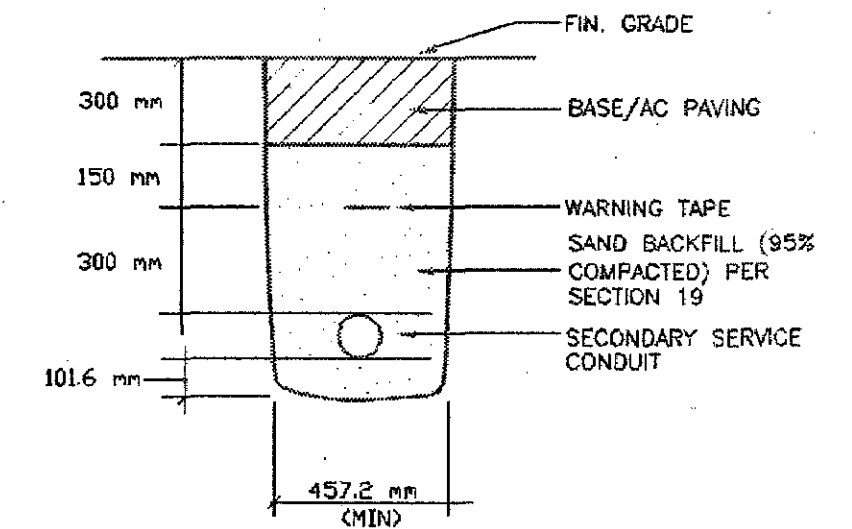


- NOTES:
1. GALV. ANCHOR BOLTS & TEMPLATE FURNISHED BY EC. BOLTS INSTALLED AND CONCRETE BASE FURNISHED AND INSTALLED WITH REBAR BY GC.
 2. CONDUIT SHALL BE 20 mm MINIMUM SIZE AND MINIMUM 600 mm BELOW FINISH GRADE.
 3. TIES SHALL HAVE AT EACH END A 135 DEGREE HOOK BEND WITH A SIX-BAR DIAMETER BUT NOT LESS THAN 75 mm EXTENSION THAT ENGAGES THE LONGITUDINAL REINFORCEMENT AND PROJECTS INTO THE INTERIOR OF THE STIRRUP OR HOOP.
 4. HEIGHT OF BASE ABOVE GRADE IS APPROXIMATELY 450 mm, AS REQUIRED TO MOUNT BOTTOM OF FIXTURE AT 4800 mm AFG. MAXIMUM OVERALL HEIGHT OF FIXTURE ASSEMBLY (POLE, BRACKET, ETC.) CANNOT EXCEED 6000 mm AFG.

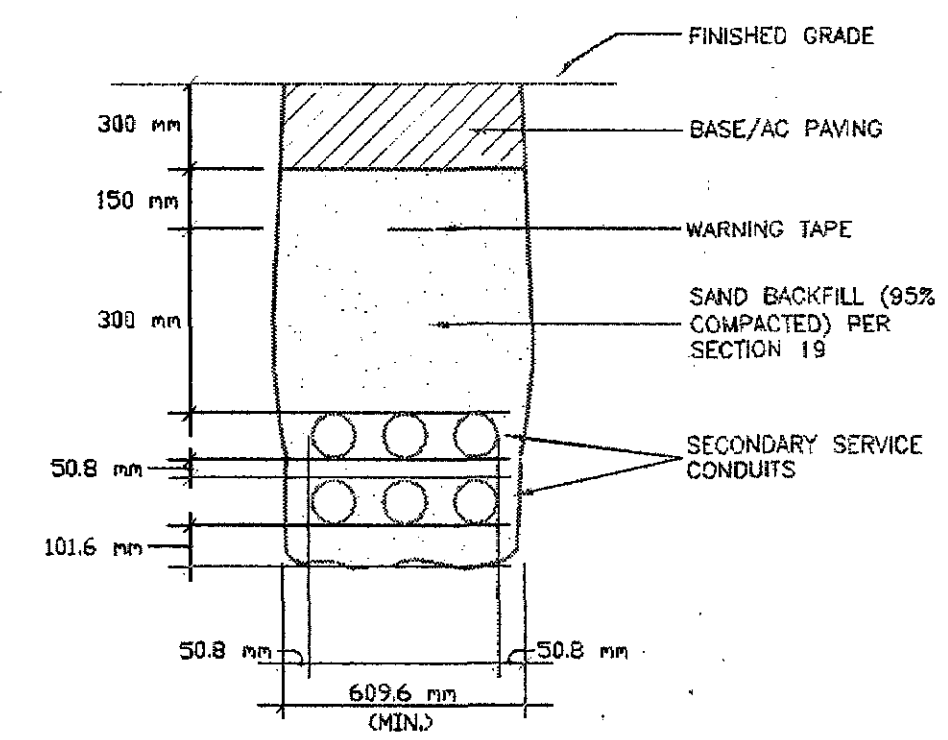
4 FIXTURE TYPES "S1" THROUGH "S4" MOUNTING DETAIL
NTS



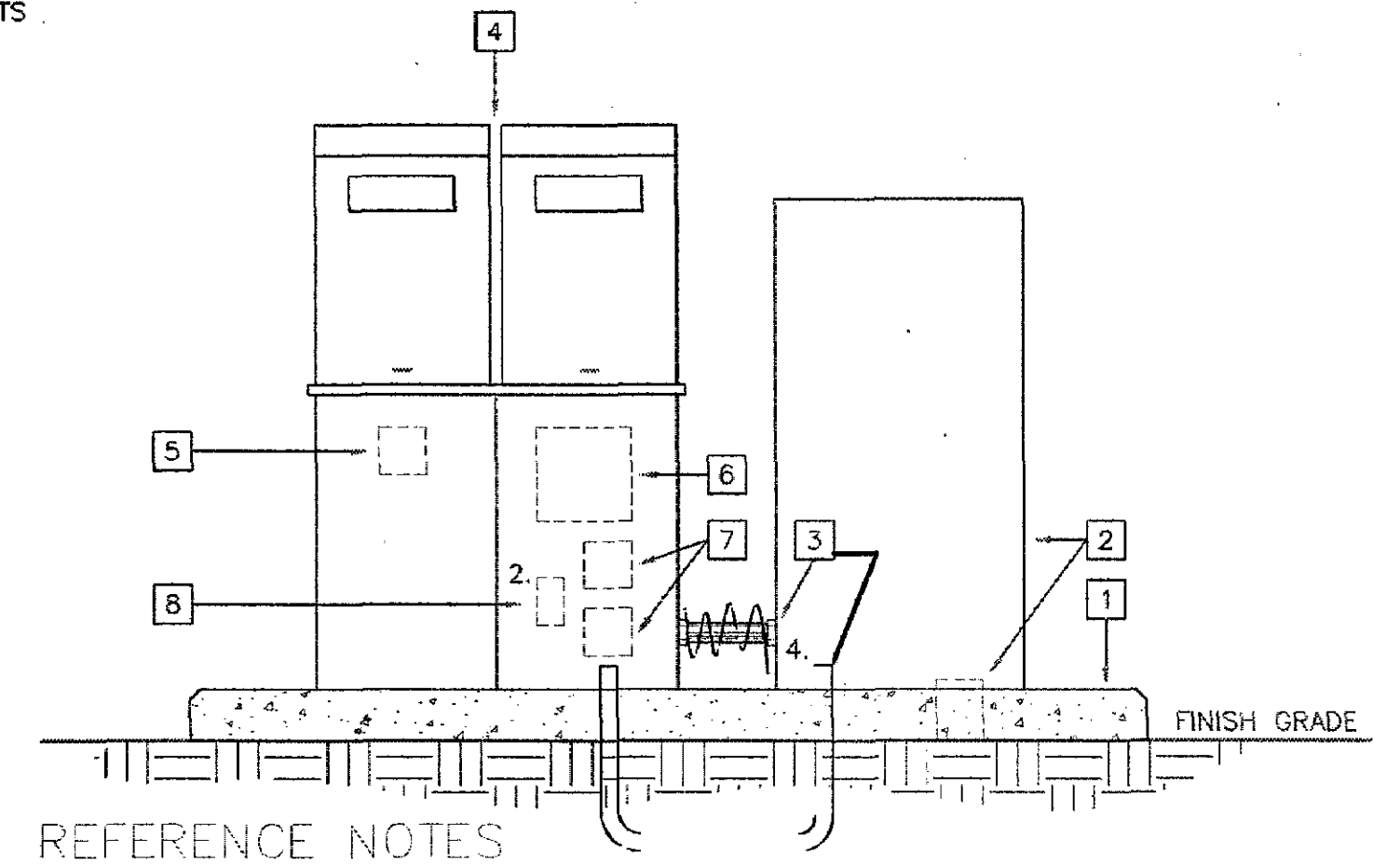
5 LIGHTING CONTROL DIAGRAM



1 SECONDARY SERVICE CONDUIT TRENCH DETAIL
NTS



2 TYPICAL FEEDER/BRANCH CIRCUIT CONDUIT TRENCH DETAIL
NTS



- REFERENCE NOTES
1. CONC. PAD WITH CHAMFERED EDGE. COORDINATE MINIMUM REQUIRED DIMENSIONS FOR APPROVED EQUIPMENT.
 2. IRRIGATION CONTROLLER BY OTHERS, EC TO CONNECT. PROVIDE 50 mm PVC SWEEP TO BEYOND PAD FOR LV CONTROL CONDUCTORS. CONDUIT UNDERGROUND
 3. GRS RATTLE BETWEEN FOR BRANCH CIRCUIT.
 4. DUAL METER PEDESTAL. (SEE SINGLE LINE) B-LINE "CM2P" SERIES OR EQUAL.
 5. MAIN BREAKER ONLY FOR REMODEL OF FUTURE BUILDING.
 6. INTEGRAL PANEL "A". (SEE SCHEDULE)
 7. LIGHTING CONTROLS. (SEE DIAGRAM)
 8. GFCI RECEPTACLE.

3 FRONT ELEVATION OF METERING EQUIP. AND IRRIGATION CONTROLLER
NTS

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REGISTERED PROFESSIONAL ENGINEER
WILLIAM A. THOMA
NO. 10757
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STATE OF CALIFORNIA

EXPIRES: 6/30/01
THOMA #00-8049

BOYLE
ENGINEERING CORPORATION

RECORD DRAWING
DATE: 9/29/02 BY: SR

city of
san luis obispo

REVISIONS:	Record Drawing	Scale:
		1" = 1'


RAILROAD TRANSPORTATION CENTER
DETAILS, SCHEDULES

DESIGNED BY:	JD
DRAWN BY:	MW
CHECKED BY:	JD
APPROVED BY:	
DATE:	01/04/00
CITY SPECIFICATION NO.	99-059B
SHEET NO.	E6A

IRRIGATION SCHEDULE

Symbol	Description	Model	NOTES
	Emitter	Hardie Turbo-SC DPJ-04 (1 GPH) or Hardie Turbo-SC DPJ-06 (2 GPH)	Dtl.31,L-5
■ ■ ■	Spray Pop-up	Rainbird 1812-SAM-PRS MPR Series* nozzle w/ PCS screen (see notes below)	Dtl.30,L-5
▼	Strip Spray Pop-up	Rainbird 1812-SAM-PRS 15EST end strip* nozzle w/ PCS screen (see notes below)	Dtl.30,L-5
⌘	Strip Spray Pop-up	Rainbird 1812-SAM-PRS 15SST side strip* nozzle w/ PCS screen (see notes below)	Dtl.30,L-5
⊙ ⊙ ⊙	Rotor Pop-up	Hunter PGH-ADV-nozzle size per plan	Dtl.30,L-5
⊠	Controller Pedestal Sensor Board and Terminal Board Data Phone and Hardwire	Rainmaster DX18-SPED Rainmaster DX-03 Board Data Phone and Rainmaster DX-PH	Dtl.23,L-5
⊠	Flow Sensor	Rainmaster DX-FLOW	Dtl.22,L-5
⊕	Master Valve	Hardie 100P1.5, normally open	Dtl.22,L-5
⊙	R.P. Backflow Device	Febco 825Y - 40mm	Dtl.13,L-5
⊕	Electric Control Valve	Hardie 700 Ultraflow, size per plan	Dtl.10,L-5
▼	Pressure Regulator	Wilkins 500 series	Dtl.43,L-5
▼	Filter	AG Products #4E-3/4	Dtl.43,L-5
⊠	Shutoff Valve	Nibco T-134 Bronze Gate Valve	Dtl.12,L-5
⊙	Quick Coupler Valve	Rainbird 3RC w/ 33DK	Dtl.11,L-5
---	Pressure Line	Schedule 40 PVC, 450mm Deep	Dtl.20,L-5
---	Lateral Line	Class 200 PVC, 300mm Deep	Dtl.20,L-5
⊠	Thrust Block	per detail & specifications	Dtl.21,L-5
①	Drip Zone	Hardie EHD1645 polyethylene hose .613 I.D. Dtl.31-33,L-5 flush valve (AG Products 3/4-B ball valve)	
---	PVC sleeve	PVC sch 40, 2x line size	

Valve Callout Symbol

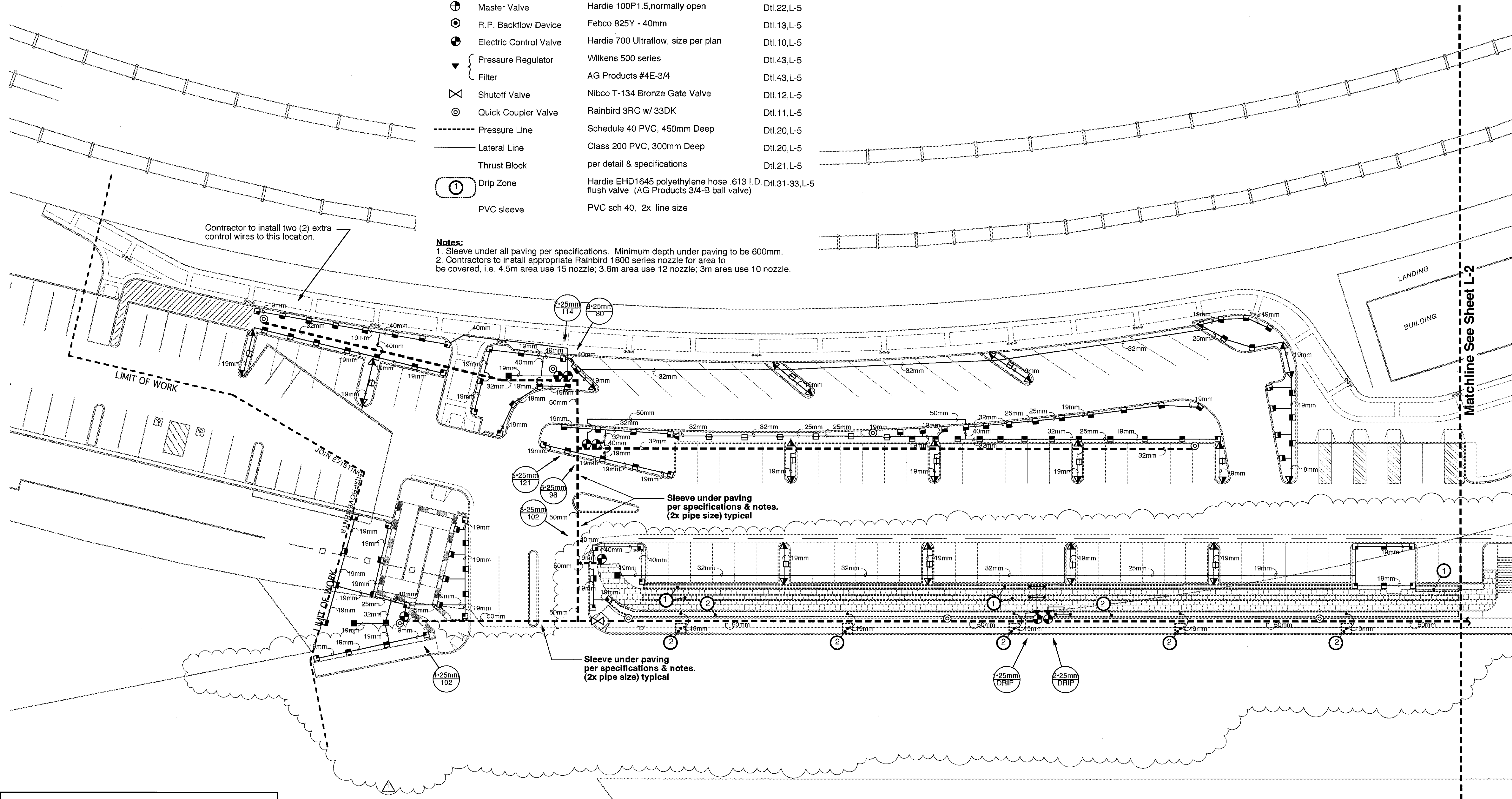
Valve Station Number  Size Of Valve
Liters Per Minute In Millimeters

Sheet Notes

- Location of irrigation equipment is schematic. Locate in planting areas within right-of-way near location shown on plan.
- Locate mainline and all equipment 500mm from edge of pavement / curb.

***Note:**
Use Rainbird 1806-SAM-PRS (6" pop-up) bodies wherever heads occur along curb adjacent to all parking bays (in place of 12" pop-up).

- Notes:**
- Sleeve under all paving per specifications. Minimum depth under paving to be 600mm.
 - Contractors to install appropriate Rainbird 1800 series nozzle for area to be covered, i.e. 4.5m area use 15 nozzle; 3.6m area use 12 nozzle; 3m area use 10 nozzle.




firma
landscape architecture
planning
environmental studies
ecological restoration

Principal: David W. Foote ASLA
Registration No. 2117
849 Monterey Street Suite 205
San Luis Obispo CA 93401
805.781.9800 fax 805.781.9803

North

Scale: 1:250

0 5m 10m 15m 20m



REVISIONS:

4/17/07 Revise landscape along boardwalk per JRC

Record Drawing

PROJECT TITLE:

RAILROAD TRANSPORTATION CENTER

SHEET TITLE:

IRRIGATION PLAN

DESIGNED BY:

JB

DRAWN BY:

JB

CHECKED BY:

DF

APPROVED BY:

DATE:

04/25/2000

CITY SPECIFICATION NO.

99059B

SHEET NO.

L1

metric Scale:

H: 1:250

V:

IRRIGATION SCHEDULE

Symbol	Description	Model	NOTES
Emitter		Hardie Turbo-SC DPJ-04 (1 GPH) or Hardie Turbo-SC DPJ-08 (2 GPH)	Dtl.31,L-5
■ ■ ■ Spray Pop-up		Rainbird 1812-SAM-PRS MPR Series* nozzle w/ PCS screen (see notes below)	Dtl.30,L-5
▼ Strip Spray Pop-up		Rainbird 1812-SAM-PRS 15EST end strip* nozzle w/ PCS screen (see notes below)	Dtl.30,L-5
▣ Strip Spray Pop-up		Rainbird 1812-SAM-PRS 15SST side strip* nozzle w/ PCS screen (see notes below)	Dtl.30,L-5
⊙ ⊙ ⊙ Rotor Pop-up		Hunter PGH-ADV-nozzle size per plan	Dtl.30,L-5
⊞ Controller Pedestal Sensor Board and Terminal Board Data Phone and Hardwire		Rainmaster DX18-SPED	Dtl.23,L-5
⊞ Flow Sensor		Rainmaster DX-FLOW	Dtl.22,L-5
⊞ Master Valve		Hardie 100P1.5, normally open	Dtl.22,L-5
⊞ R.P. Backflow Device		Febco 825Y - 40mm	Dtl.13,L-5
⊞ Electric Control Valve		Hardie 700 Ultraflow, size per plan	Dtl.10,L-5
▼ Pressure Regulator		Wilkens 500 series	Dtl.43,L-5
⊞ Filter		AG Products #4E-3/4	Dtl.43,L-5
⊞ Shutoff Valve		Nibco T-134 Bronze Gate Valve	Dtl.12,L-5
⊞ Quick Coupler Valve		Rainbird 3RC w/ 33DK	Dtl.11,L-5
----- Pressure Line		Schedule 40 PVC, 450mm Deep	Dtl.20,L-5
----- Lateral Line		Class 200 PVC, 300mm Deep	Dtl.20,L-5
Thrust Block		per detail & specifications	Dtl.21,L-5
① Drip Zone		Hardie EHD1645 polyethylene hose .613 I.D. Dtl.31-33,L-5 flush valve (AG Products 3/4-B ball valve)	
PVC sleeve		PVC sch 40, 2x line size	

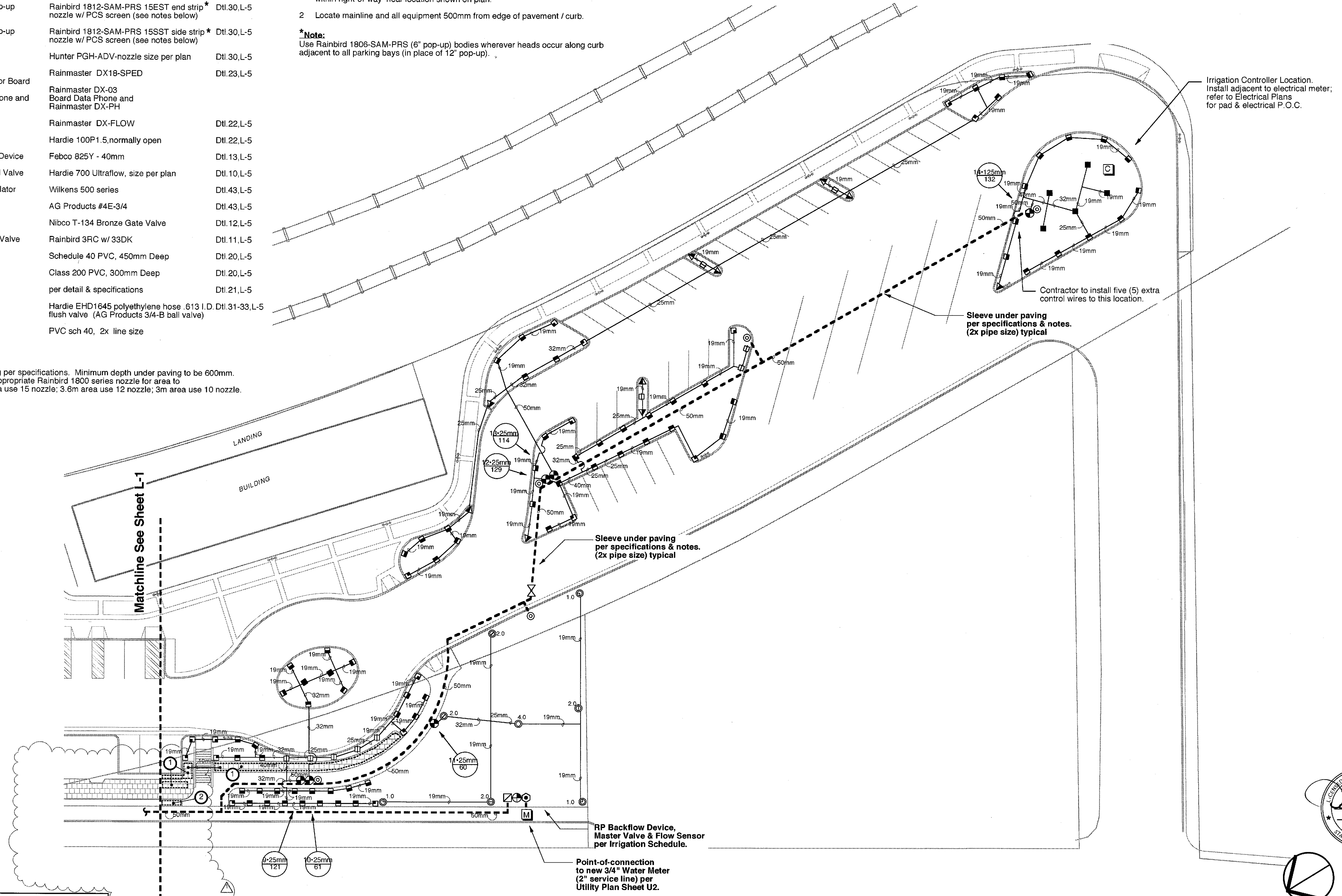
Notes:
 1. Sleeve under all paving per specifications. Minimum depth under paving to be 600mm.
 2. Contractors to install appropriate Rainbird 1800 series nozzle for area to be covered, i.e. 4.5m area use 15 nozzle; 3.6m area use 12 nozzle; 3m area use 10 nozzle.

Valve Callout Symbol
 Valve Station Number — Size Of Valve
 Liters Per Minute — In Millimeters

Sheet Notes

- Location of irrigation equipment is schematic. Locate in planting areas within right-of-way near location shown on plan.
- Locate mainline and all equipment 500mm from edge of pavement / curb.

***Note:**
 Use Rainbird 1806-SAM-PRS (6" pop-up) bodies wherever heads occur along curb adjacent to all parking bays (in place of 12" pop-up).



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 849 Monterey Street Suite 205
 San Luis Obispo CA 93401
 805.781.9800 fax 805.781.9803

city of
san luis obispo

REVISIONS:
 4/17/01 Revise landscape along
 boundary per ARC
 Record Drawing

Graphic Scale:
 H: 1:250
 V: 1:250

PROJECT TITLE:
RAILROAD TRANSPORTATION CENTER

SHEET TITLE:
IRRIGATION PLAN

DESIGNED BY:
 JB

DRAWN BY:
 JB

CHECKED BY:
 DF

APPROVED BY:

DATE:

04/25/2000

CITY SPECIFICATION NO.

99059B

SHEET NO.

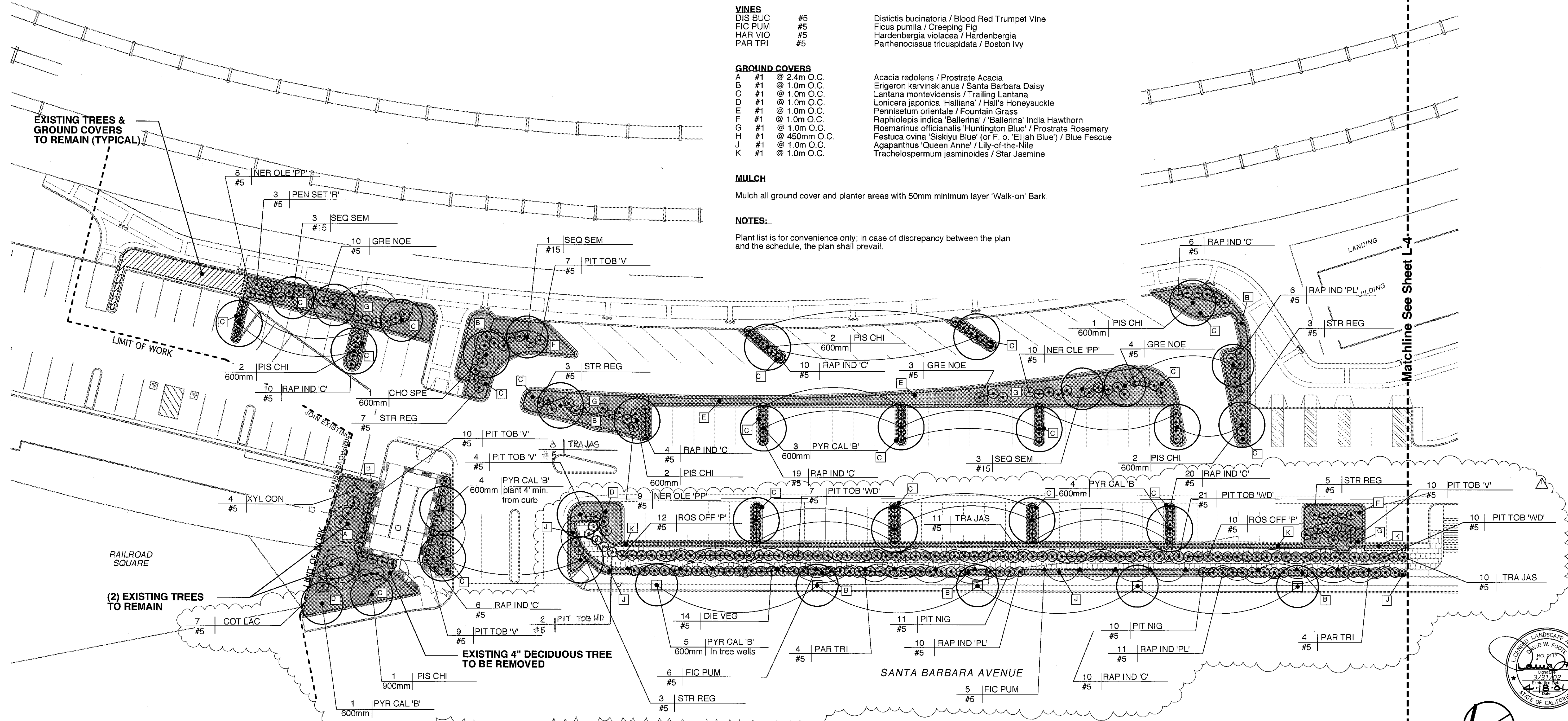
L2

PLANT MATERIAL LIST

ABBREV	SIZE	BOTANICAL NAME/COMMON NAME	NOTES
ACCENT PALM TREES			
PHO CAN	900mm	Phoenix Canariensis / Canary Island Date Palm	
TREES			
CHO SPE	600mm	Chorisia speciosa / Floss Silk Tree	Slo Std. 8240 ↓
PIS CHI	600mm/900mm	Pistacia chinensis / Chinese Pistache	
PYR CAL 'B'	600mm	Pyrus calleryana 'Bradford' / Bradford Pear	
SEQ SEM	#15	Sequoia sempervirens / Coast Redwood	
SHRUBS & ORNAMENTAL GRASSES			
COT LAC	#5	Cotoneaster lacteus / Red Clusterberry	
DIE VEG	#5	Dietes vegeta / Fortnight Lily	
GRE NOE	#5	Grevillea 'noellii' / (no common name)	
NER OLE 'PP'	#5	Nerium oleander 'Petite Pink' / Dwarf Oleander	
PEN SET 'R'	#5	Pennisetum setaceum 'Rubrum' / Purple Fountain Grass	
PIT NIG	#5	Pittosporum Nigricans / (no common name)	
PIT TOB 'V'	#5	Pittosporum tobira 'Variegata' / Variegated Tobira	
PIT TOB 'WD'	#5	Pittosporum tobira 'Wheeler's Dwarf' / Dwarf Tobira	
RAP IND 'C'	#5	Raphiolepis indica 'Clara' / White India Hawthorn	
RAP IND 'PL'	#5	Raphiolepis indica 'Pink Lady' / Pink India Hawthorn	
ROS OFF 'P'	#5	Rosmarinus officinalis 'Prostratus' / Prostrate Rosemary	
STR REG	#5	Streitizia reginae / Bird-of-paradise	
TRA JAS	#5	Trachelospermum jasminoides / Star Jasmine	
XYL CON	#5	Xylosma congestum / Shiny Xylosma	
VINES			
DIS BUC	#5	Distictis bucinatoria / Blood Red Trumpet Vine	
FIC PUM	#5	Ficus pumila / Creeping Fig	
HAR VIO	#5	Hardenbergia violacea / Hardenbergia	
PAR TRI	#5	Parthenocissus tricuspidata / Boston Ivy	
GROUND COVERS			
A #1	@ 2.4m O.C.	Acacia redolens / Prostrate Acacia	
B #1	@ 1.0m O.C.	Erigeron karvinskianus / Santa Barbara Daisy	
C #1	@ 1.0m O.C.	Lantana montevidensis / Trailing Lantana	
D #1	@ 1.0m O.C.	Lonicera japonica 'Halliana' / Hall's Honeysuckle	
E #1	@ 1.0m O.C.	Pennisetum orientale / Fountain Grass	
F #1	@ 1.0m O.C.	Raphiolepis indica 'Ballerina' / 'Ballerina' India Hawthorn	
G #1	@ 1.0m O.C.	Rosmarinus officinalis 'Huntington Blue' / Prostrate Rosemary	
H #1	@ 450mm O.C.	Festuca ovina 'Siskiyu Blue' (or F. o. 'Elijah Blue') / Blue Fescue	
J #1	@ 1.0m O.C.	Agapanthus 'Queen Anne' / Lily-of-the-Nile	
K #1	@ 1.0m O.C.	Trachelospermum jasminoides / Star Jasmine	

MULCH
Mulch all ground cover and planter areas with 50mm minimum layer 'Walk-on' Bark.

NOTES:
Plant list is for convenience only; in case of discrepancy between the plan and the schedule, the plan shall prevail.



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city of
san luis obispo

REVISIONS:
4/17/01 Revised landscape plan
Record Drawing

PROJECT TITLE:
RAILROAD TRANSPORTATION CENTER

SHEET TITLE:
PLANTING PLAN

DESIGNED BY:
JB

DRAWN BY:
JB

CHECKED BY:
DF

APPROVED BY:

DATE:
04/25/2000

CITY SPECIFICATION NO.
99059B

SHEET NO.
L3

Graphic Scale:
H: 1:250
V: 1:250

PLANT MATERIAL LIST

ABBREV SIZE BOTANICAL NAME/Common Name NOTES

ACCENT PALM TREES

PHO CAN 900mm Phoenix Canariensis / Canary Island Date Palm

TREES

CHO SPE 600mm Chorisia speciosa / Floss Silk Tree
PIS CHI 600mm/900mm Pistacia chinensis / Chinese Pistache
PYR CAL 'B' 600mm Pyrus calleryana 'Bradford' / Bradford Pear
SEQ SEM #15 Sequoia sempervirens / Coast Redwood

SHRUBS & ORNAMENTAL GRASSES

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FIC PUM #5 Ficus pumila / Creeping Fig
HAR VIO #5 Hardenbergia violacea / Hardenbergia
PAR TRI #5 Parthenocissus tricuspidata / Boston Ivy

GROUND COVERS

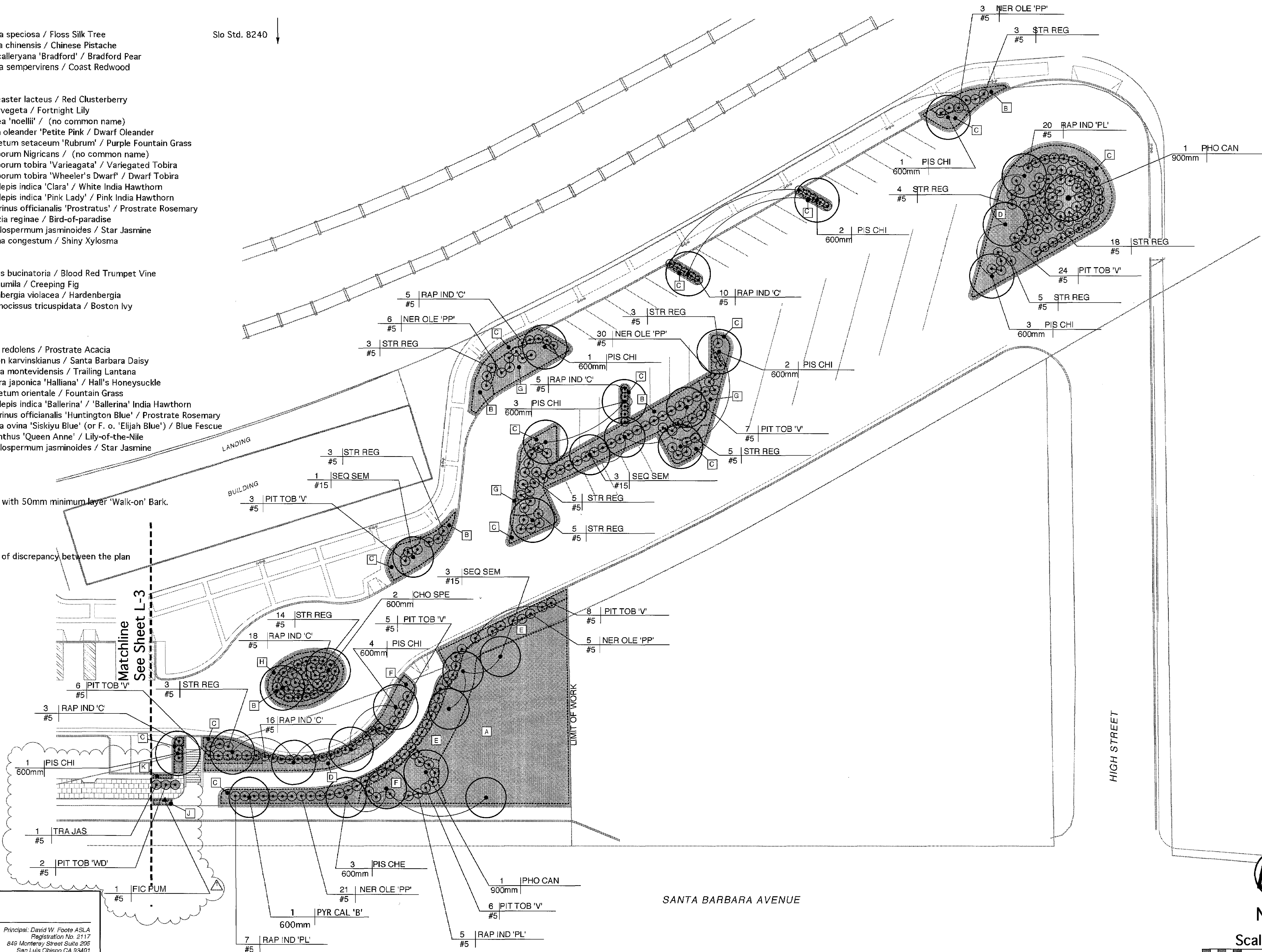
A #1 @ 2.4m O.C. Acacia redolens / Prostrate Acacia
B #1 @ 1.0m O.C. Erigeron karvinskianus / Santa Barbara Daisy
C #1 @ 1.0m O.C. Lantana montevidensis / Trailing Lantana
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MULCH

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NOTES:

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city of
san luis obispo

REVISIONS:
4/17/01 Revised landscape plan
Record Drawing

Graphic Scale:
H: 1:250
V: 1:250

PROJECT TITLE:
RAILROAD TRANSPORTATION CENTER

SHEET TITLE:
PLANTING PLAN

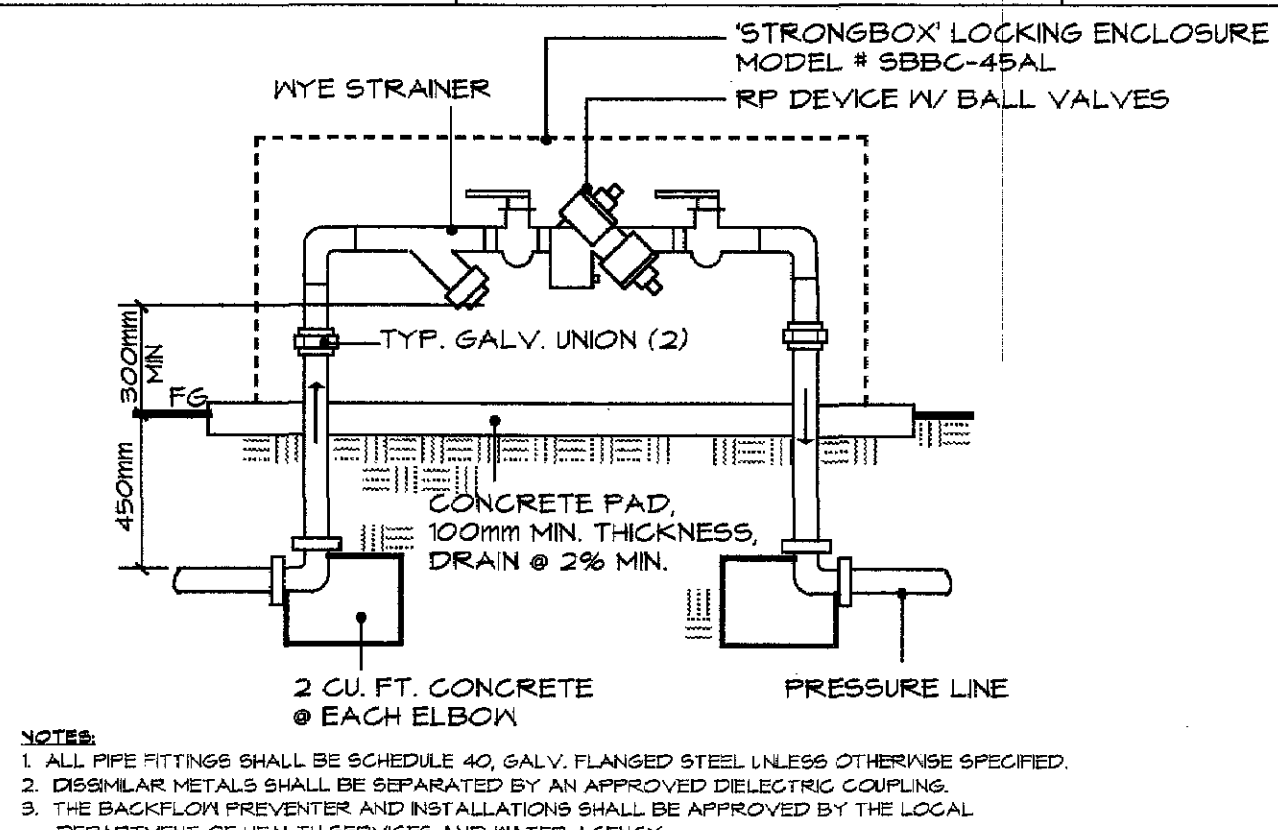
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JB
DRAWN BY:
JB
CHECKED BY:
DF
APPROVED BY:

DATE:
04/25/2000

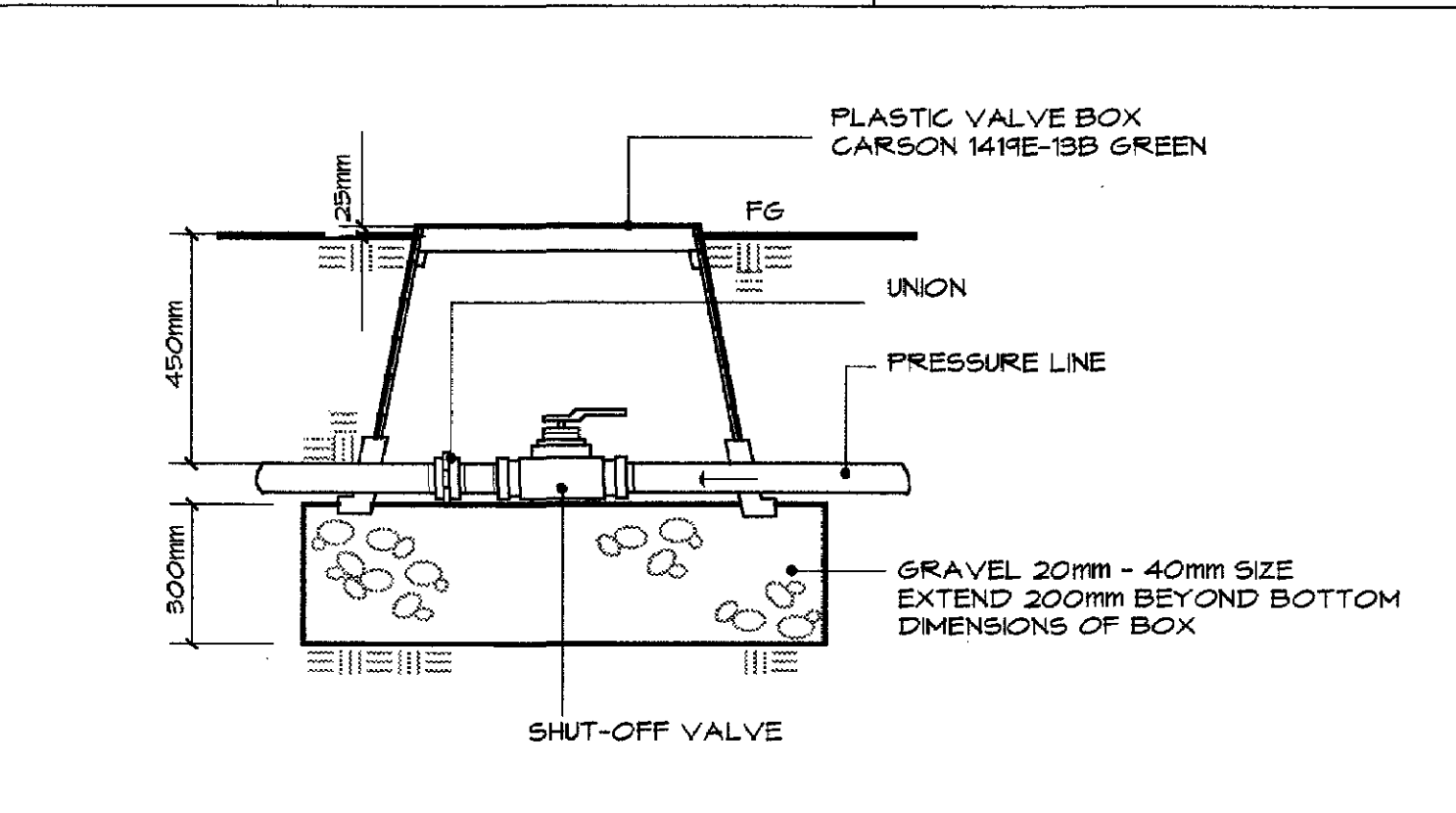
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99059B

SHEET NO.

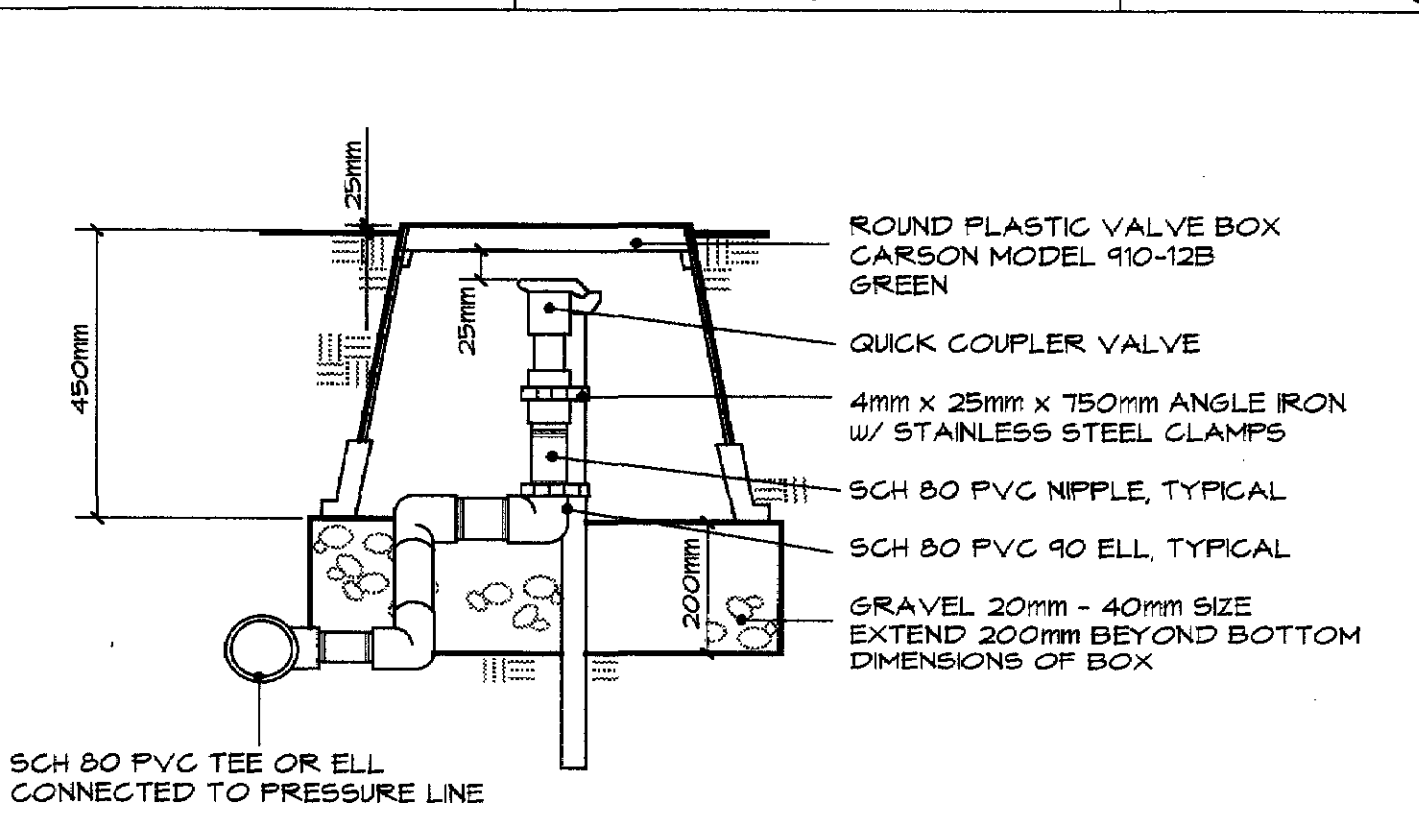
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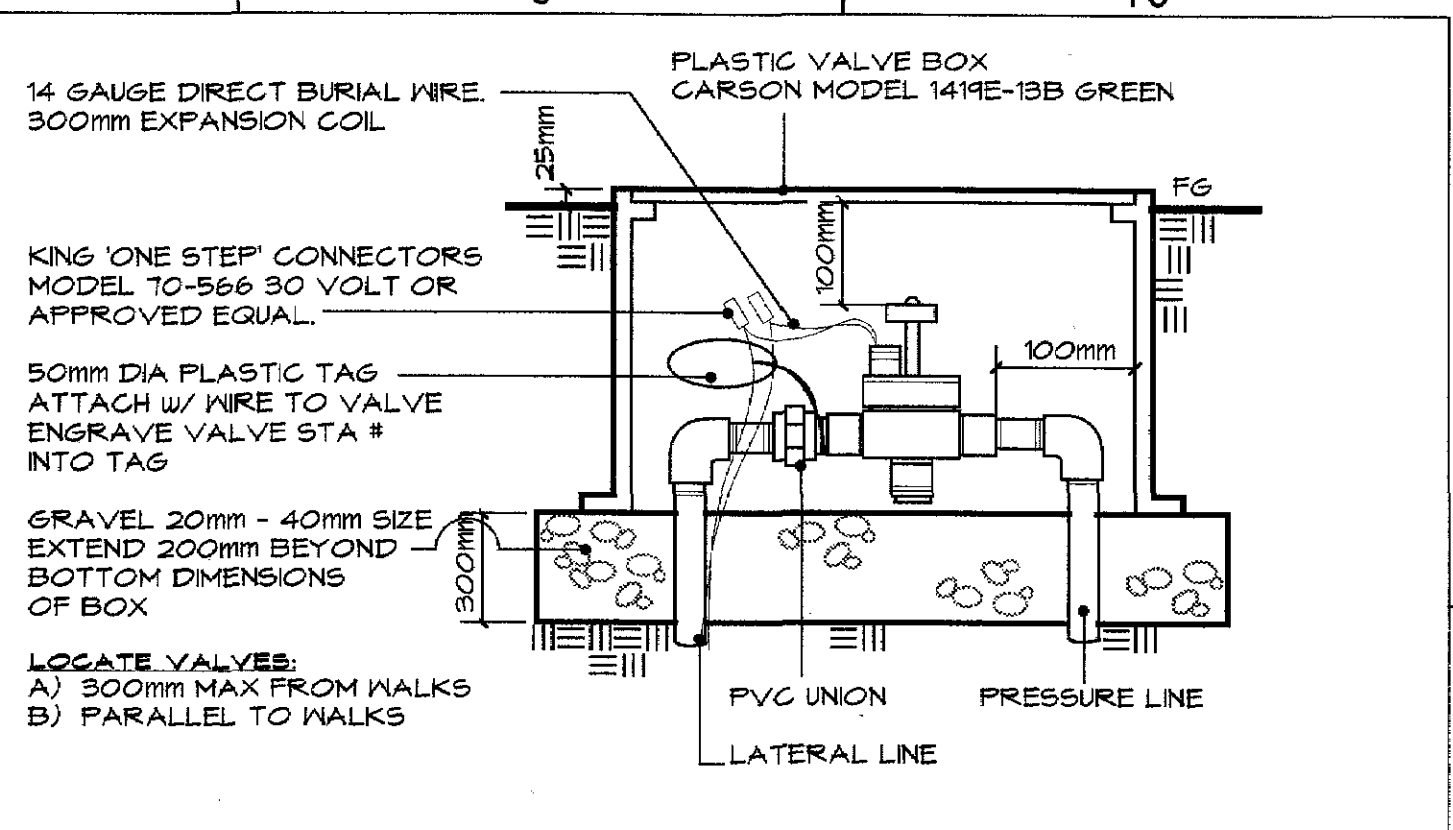
13 REDUCED PRESSURE BACKFLOW PREVENTER



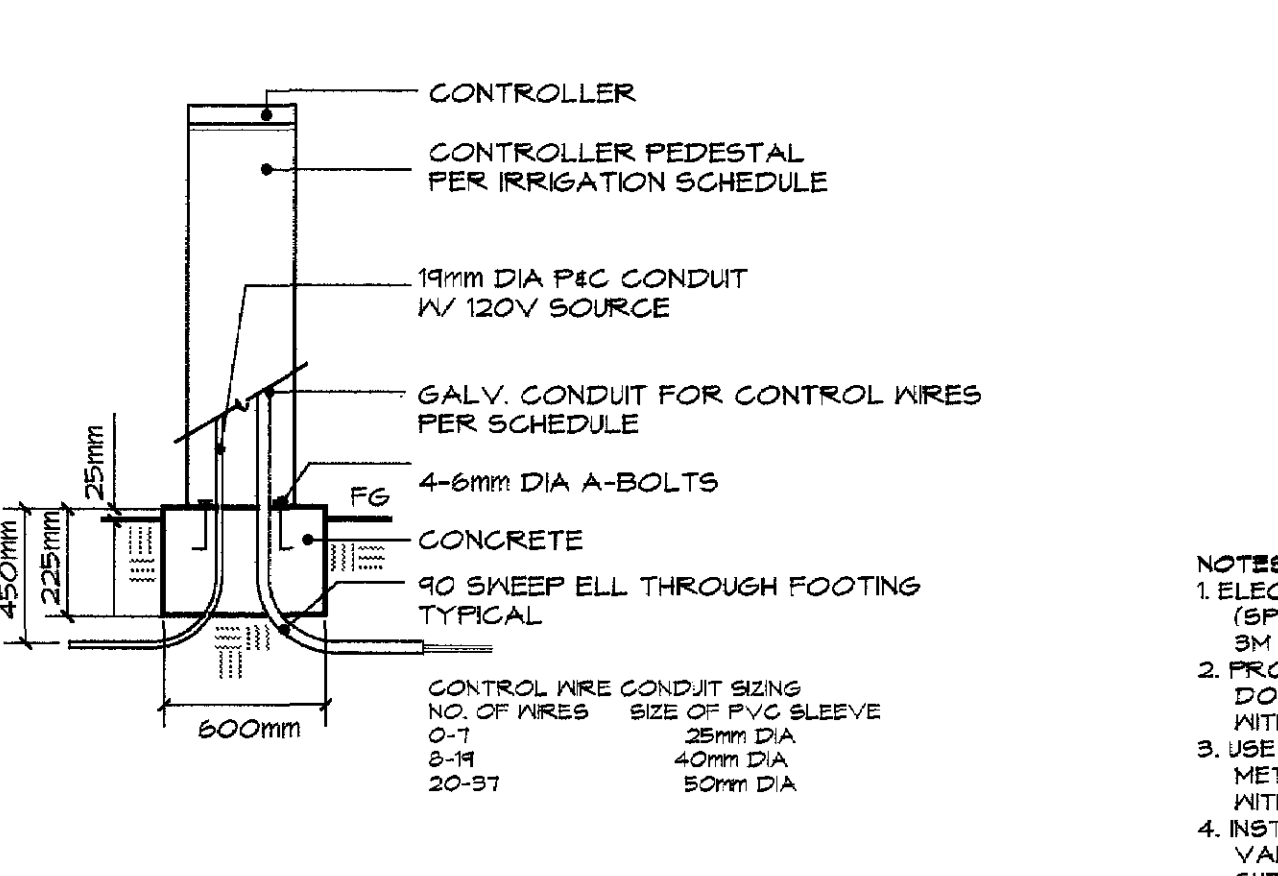
12 SHUT-OFF VALVE



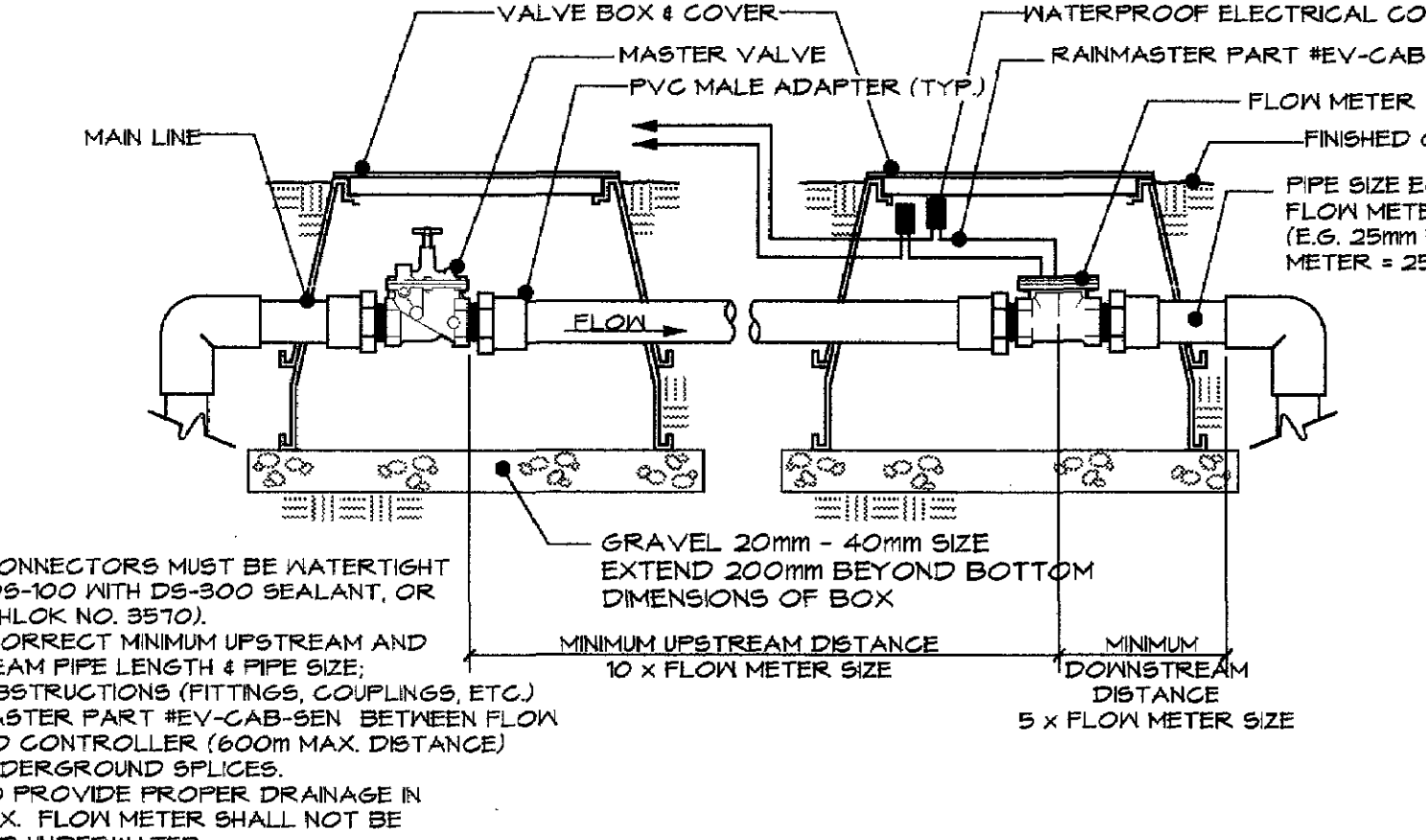
11 QUICK COUPLER VALVE



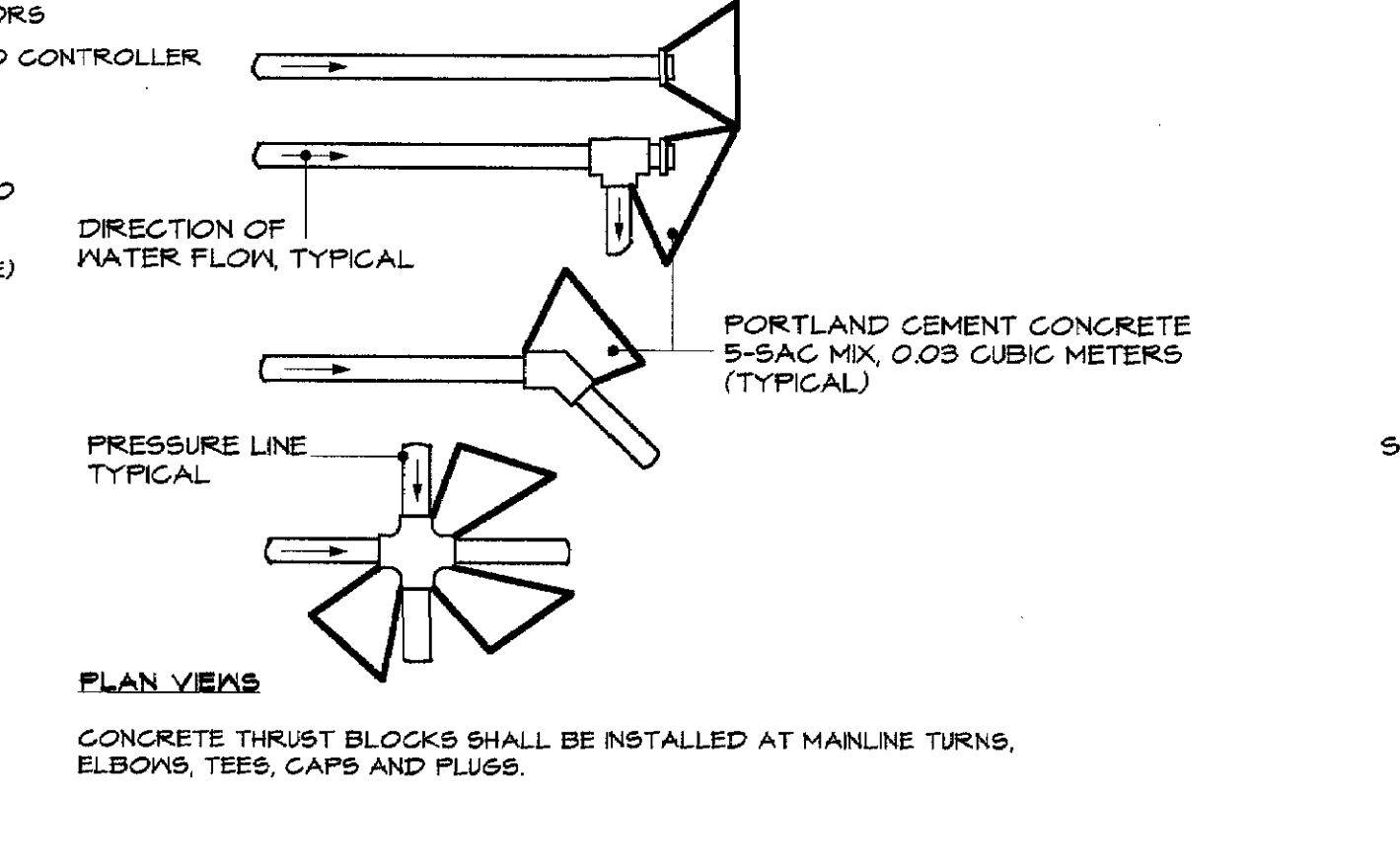
10 ELECTRIC CONTROL VALVE



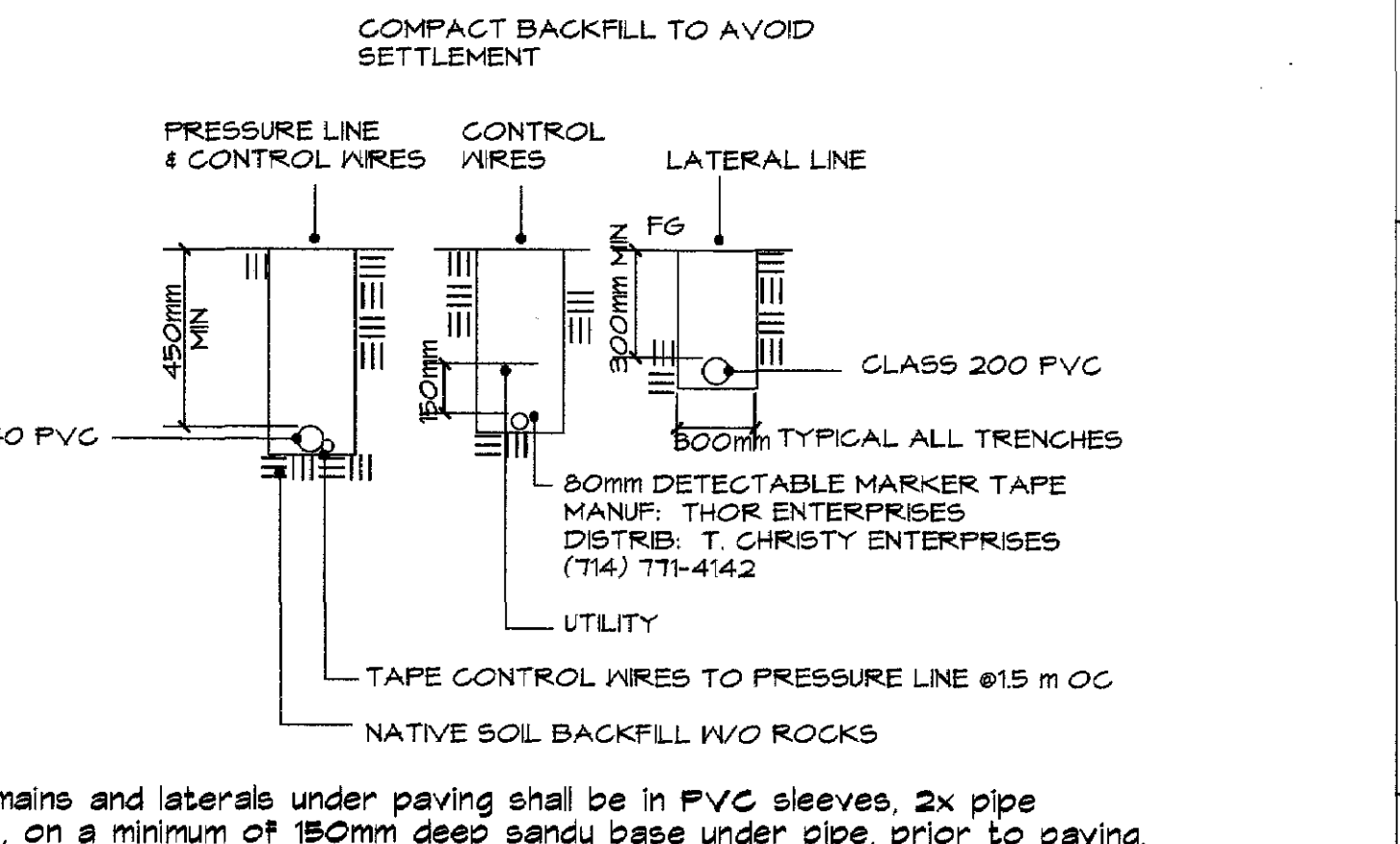
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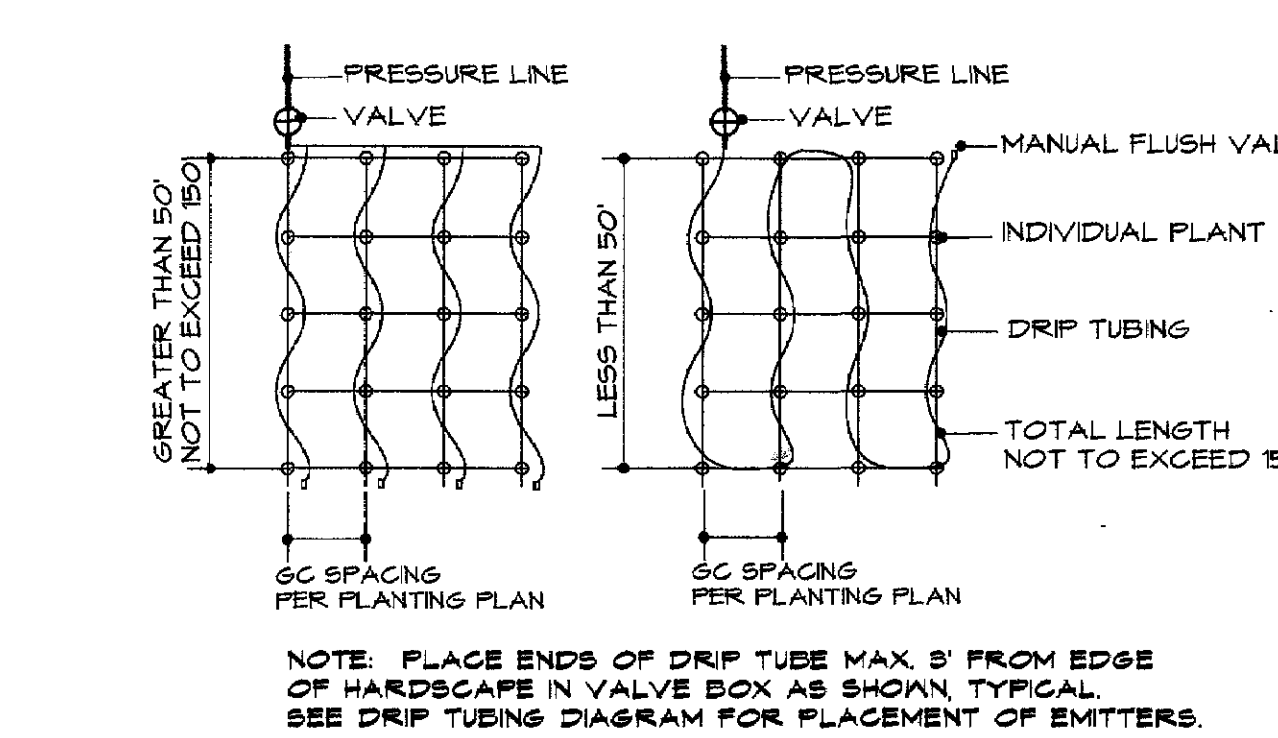
22 MASTER VALVE AND FLOW METER



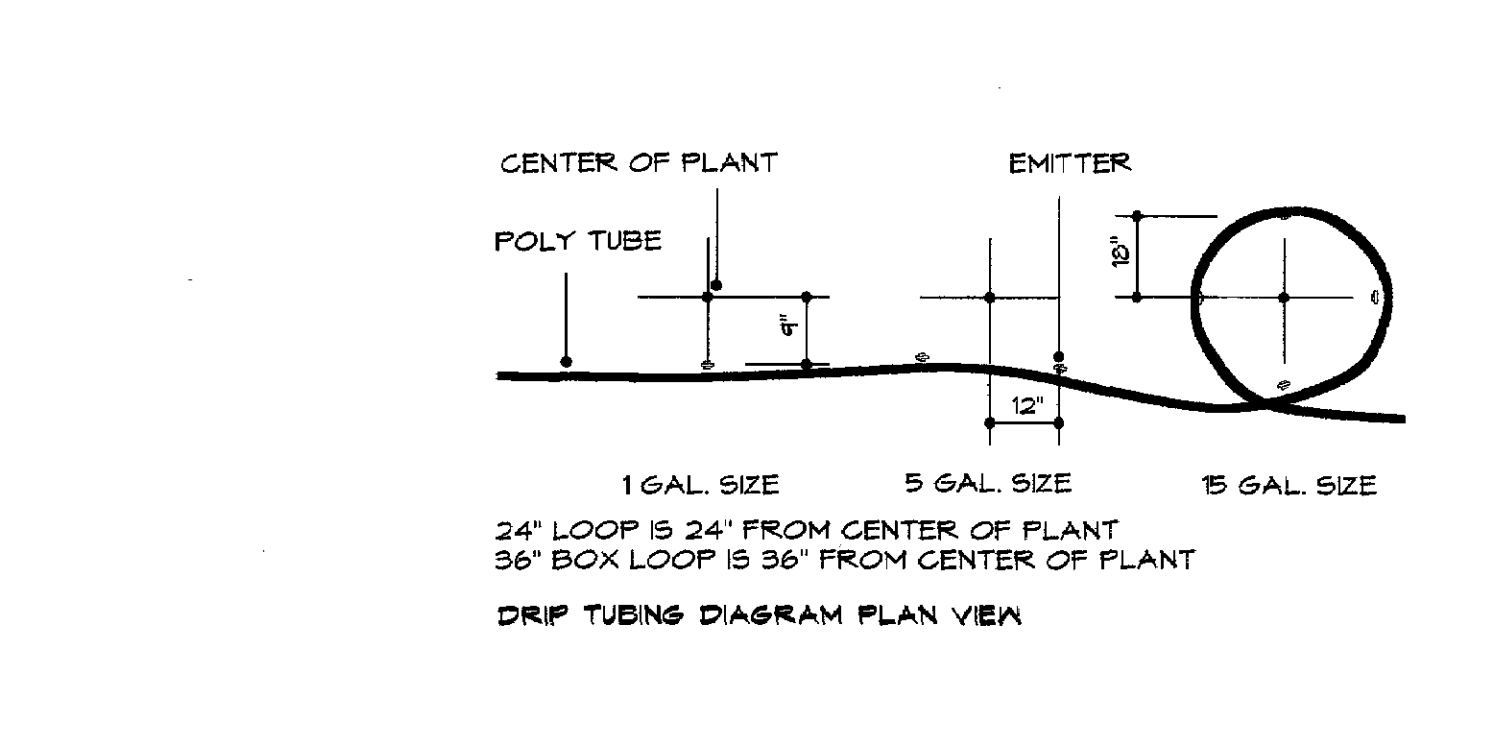
21 THRUST BLOCK



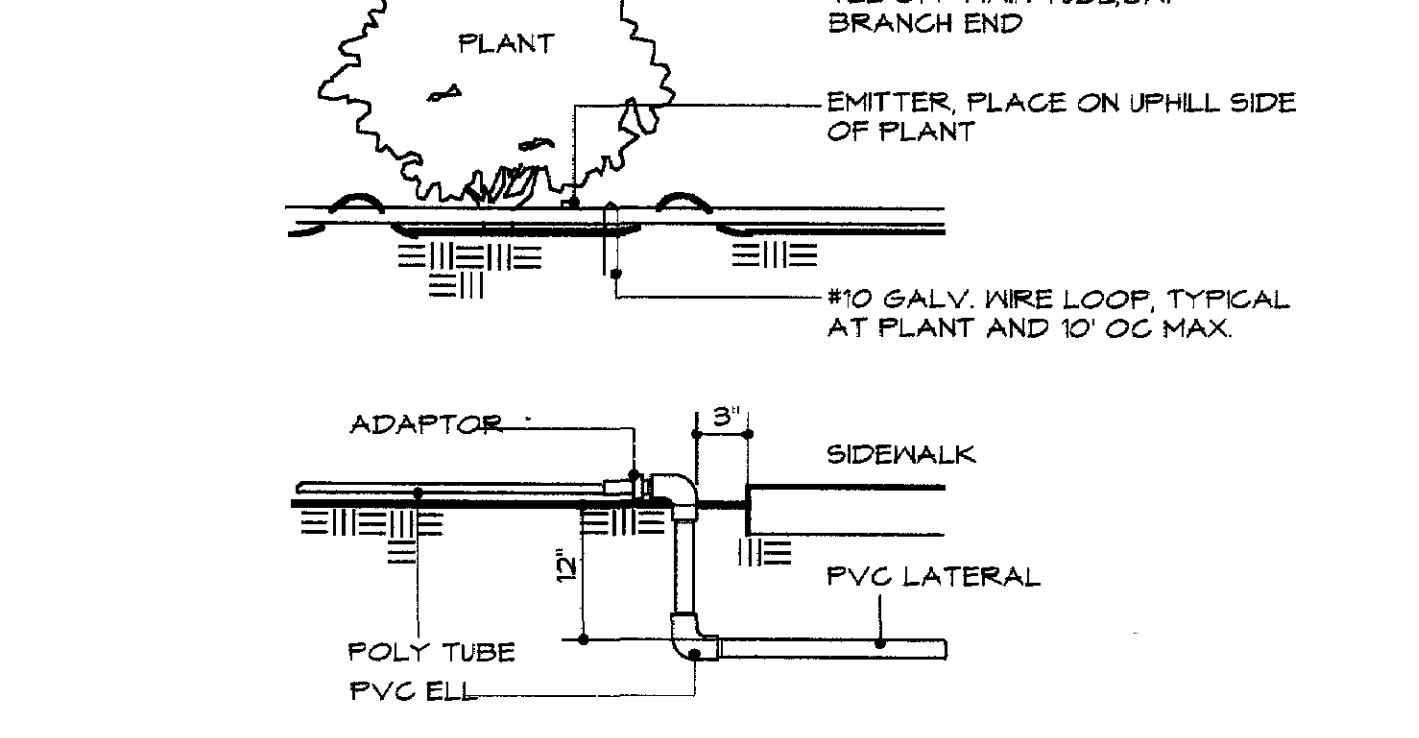
20 TRENCHING



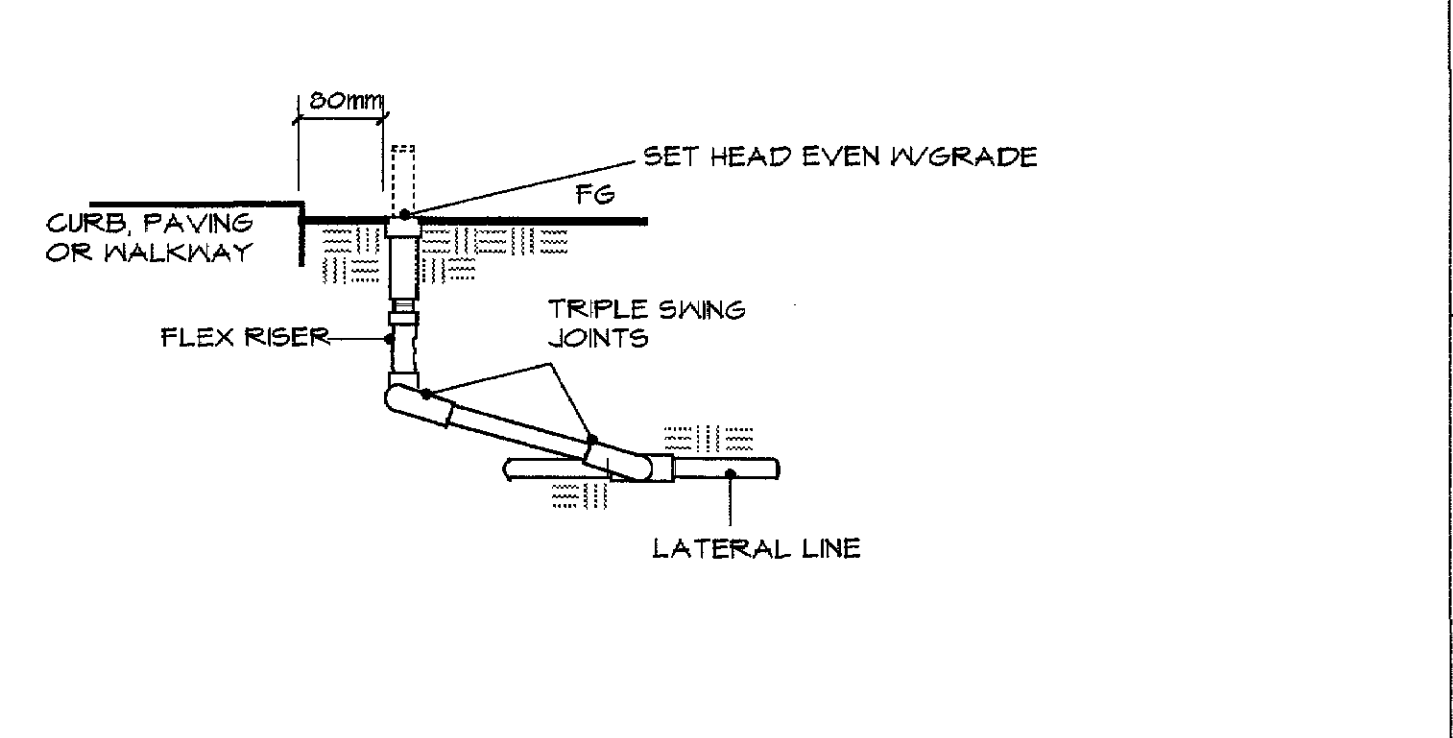
33 DRIP LAYOUT



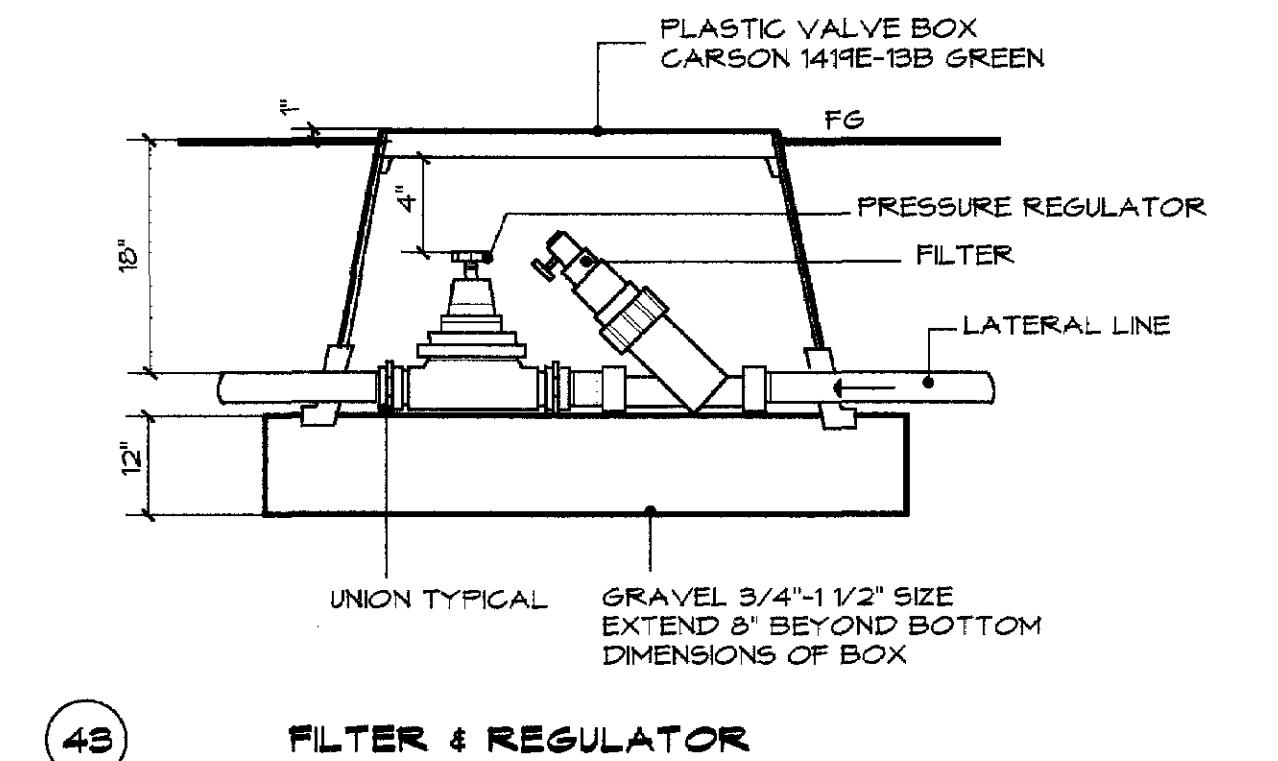
32 DRIP LAYOUT



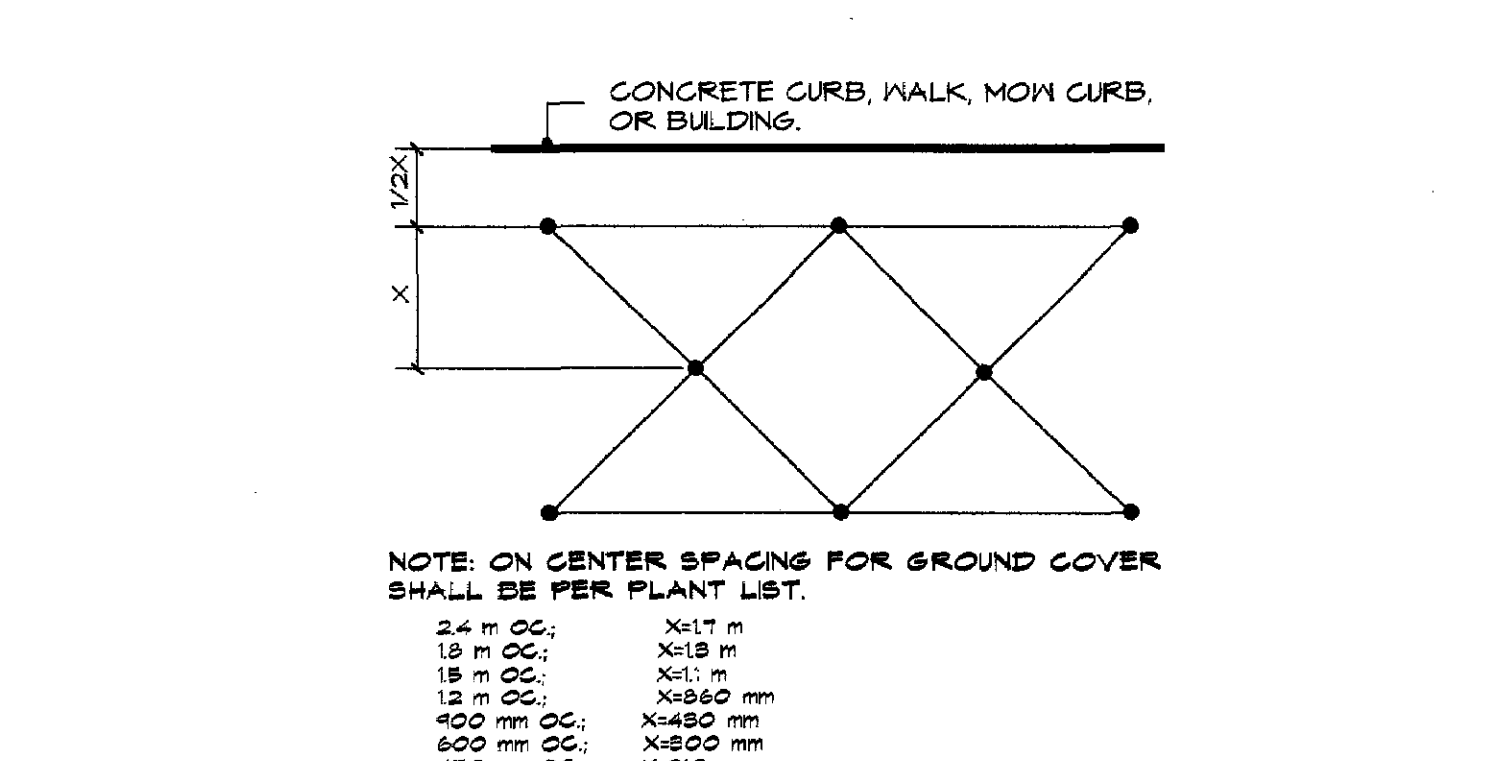
31 DRIP LAYOUT



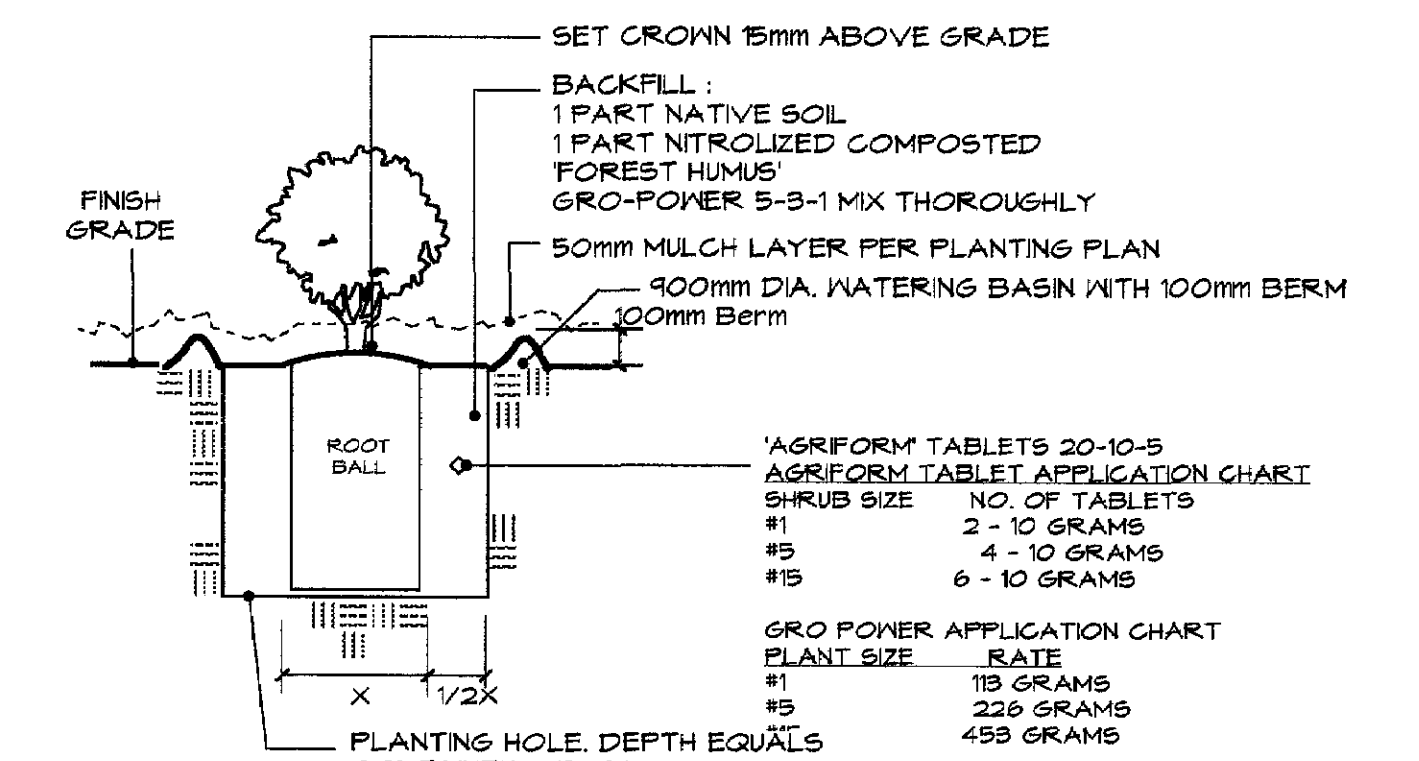
30 POP-UP ROTOR / SPRAY



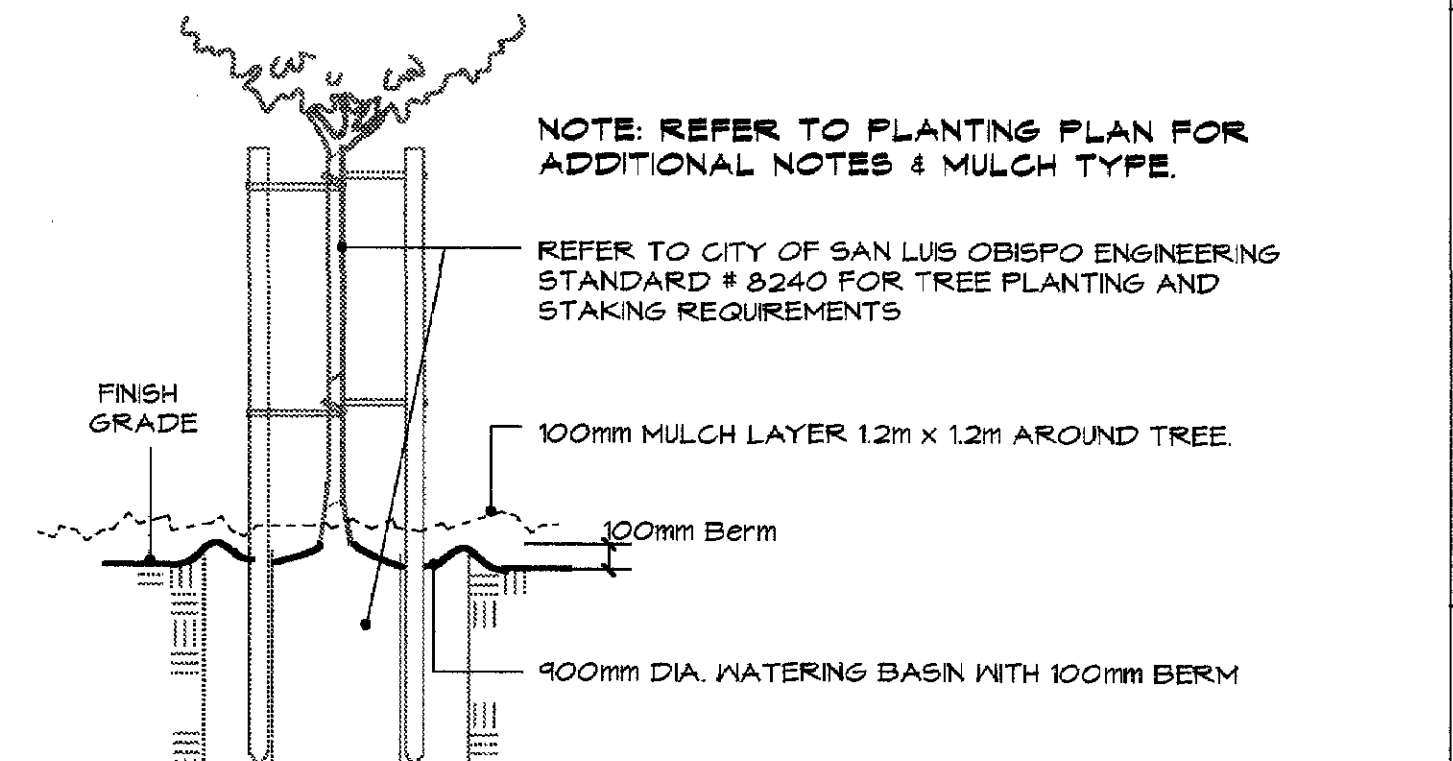
43 FILTER & REGULATOR



42 GROUND COVER SPACING



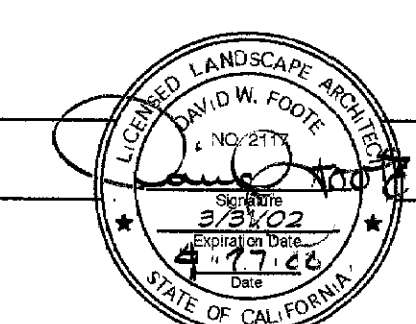
41 SHRUB & GROUND COVER PLANTING



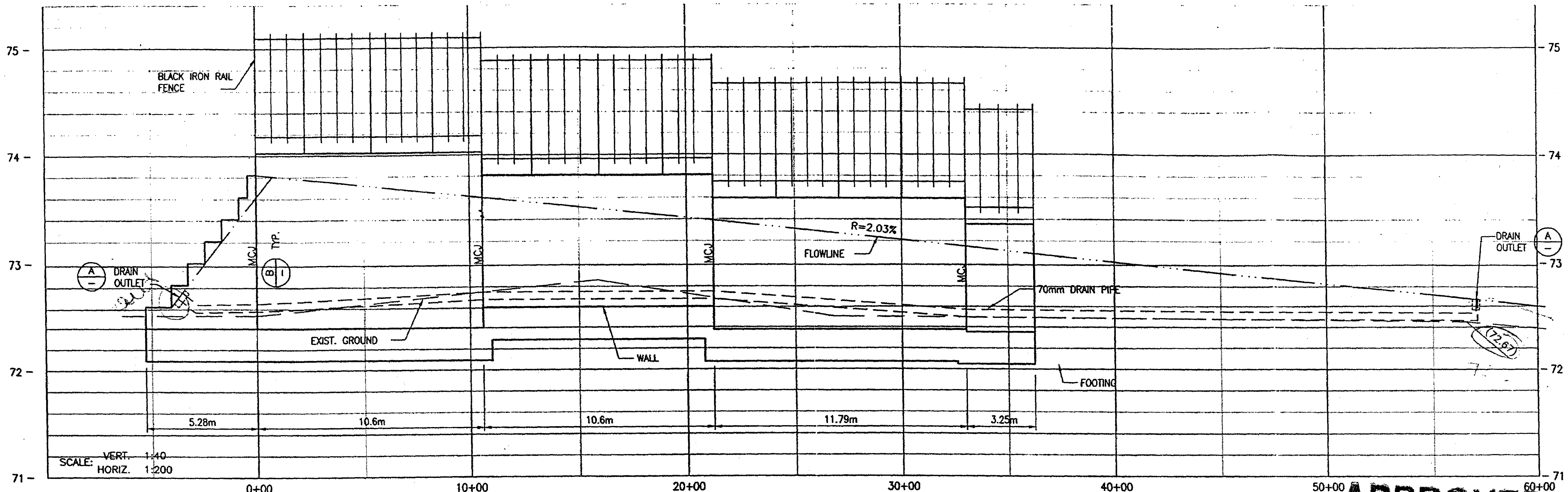
40 TREE PLANTING

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Job # VPS650010 User: ramesh Date: 11-13-00 2:04:16 PM Plot File: plan-ns border plan row 00000000



PROFILE

APPROVED

(TRANSPORTATION CENTER PROPERTY)

(RARIG PROPERTY)

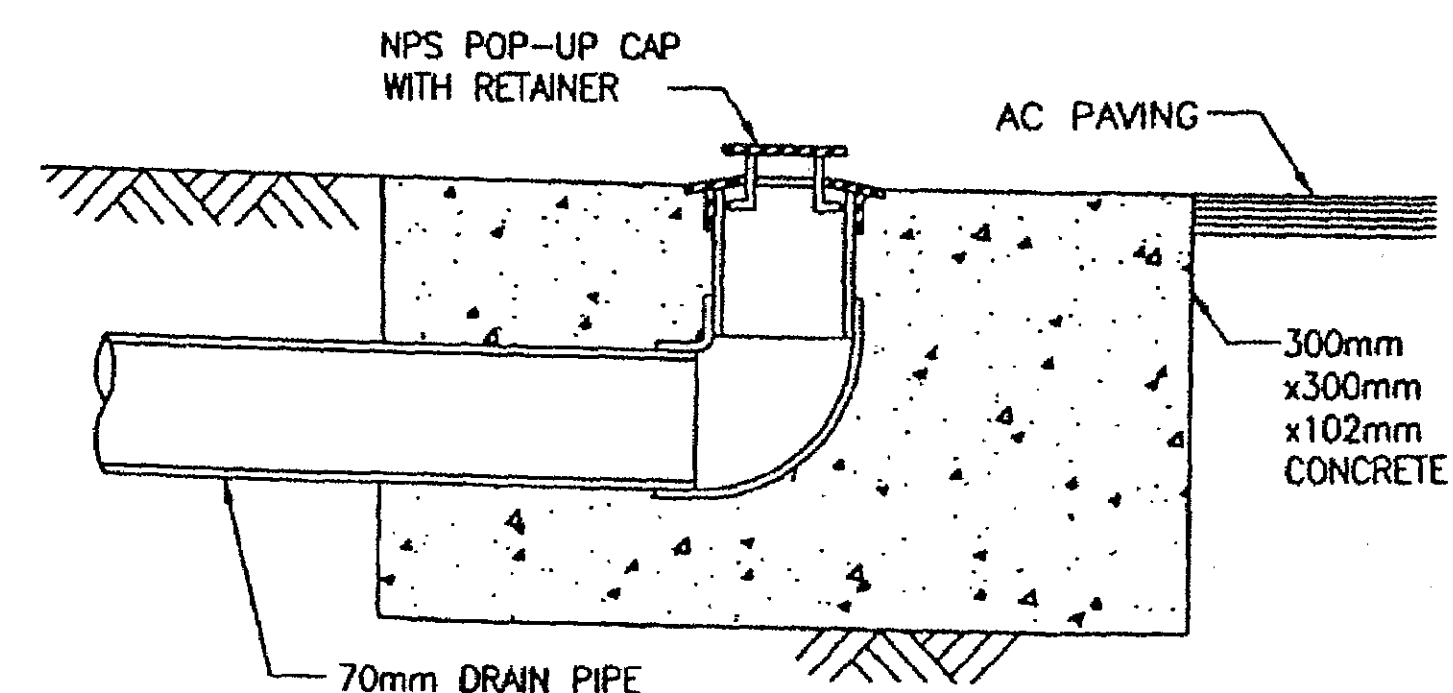
PLAN

DEC 04 2000
BUILDING DIVISION
CITY OF SAN LUIS OBISPO
RECEIVED

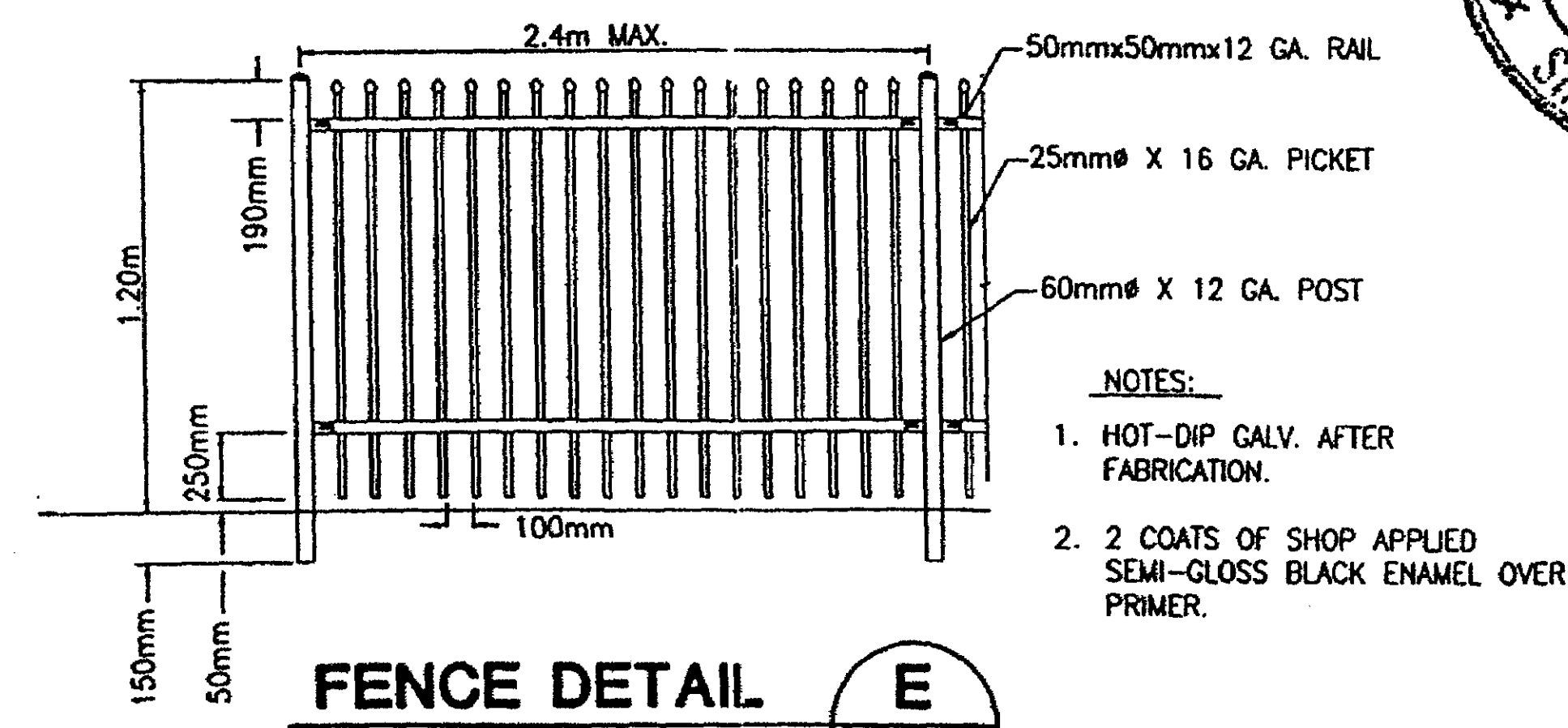
NOV 17 2000
CITY OF SAN LUIS OBISPO
BUILDING DIVISION

- LEGEND**
- RETAINING WALL
 - PROPERTY LINE
 - 70mm DRAIN PIPE

SCALE: 1:200

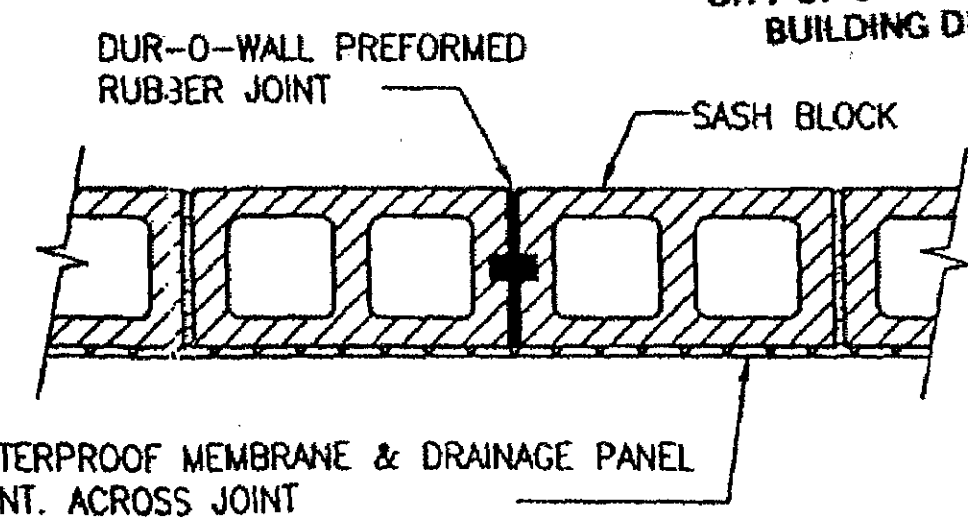
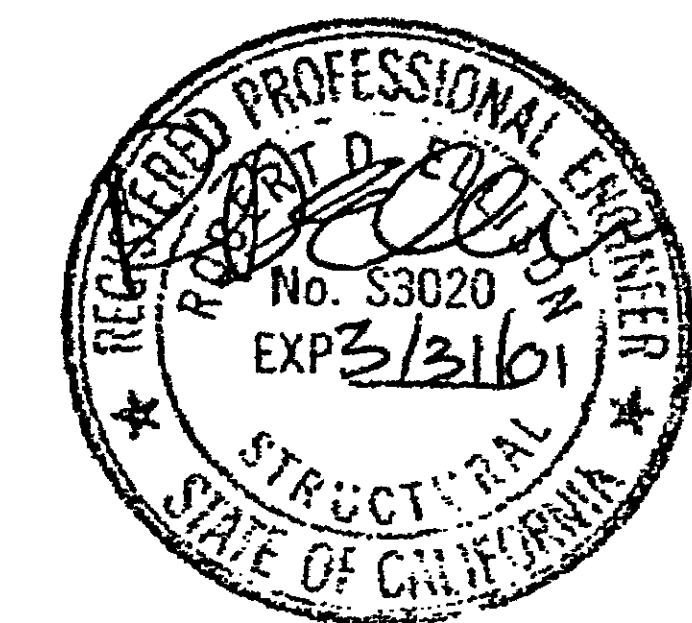


DRAIN OUTLET
NTS



FENCE DETAIL
N.T.S.

- NOTES:**
- HOT-DIP GALV. AFTER FABRICATION.
 - 2 COATS OF SHOP APPLIED SEMI-GLOSS BLACK ENAMEL OVER PRIMER.

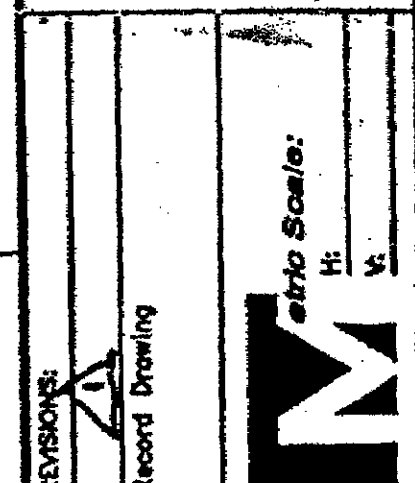


TYP. MASONRY CONTROL JOINT (MCJ)
NTS

AS REVISED

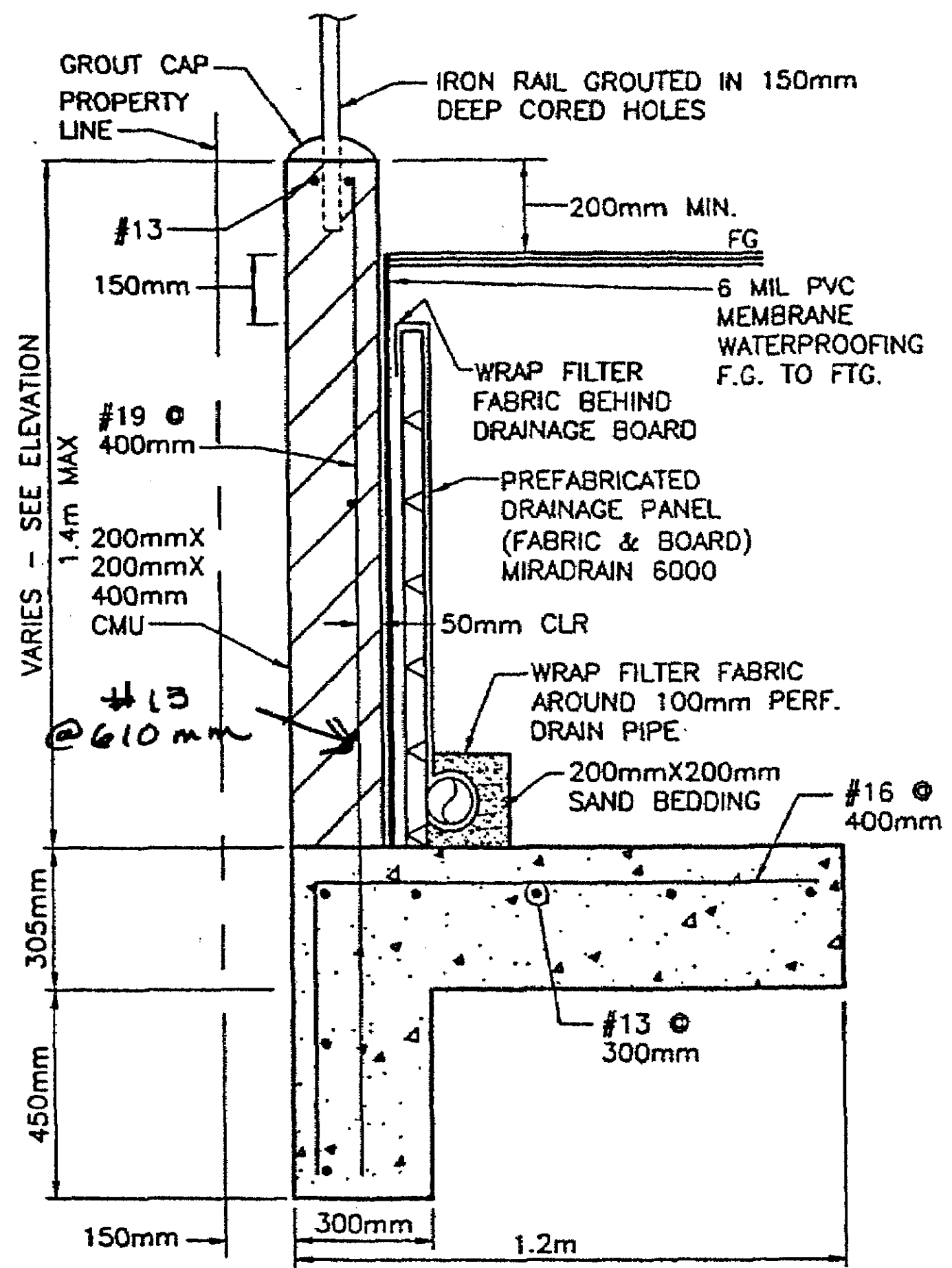
BOYLE
ENGINEERING CORPORATION

City of
San Luis Obispo

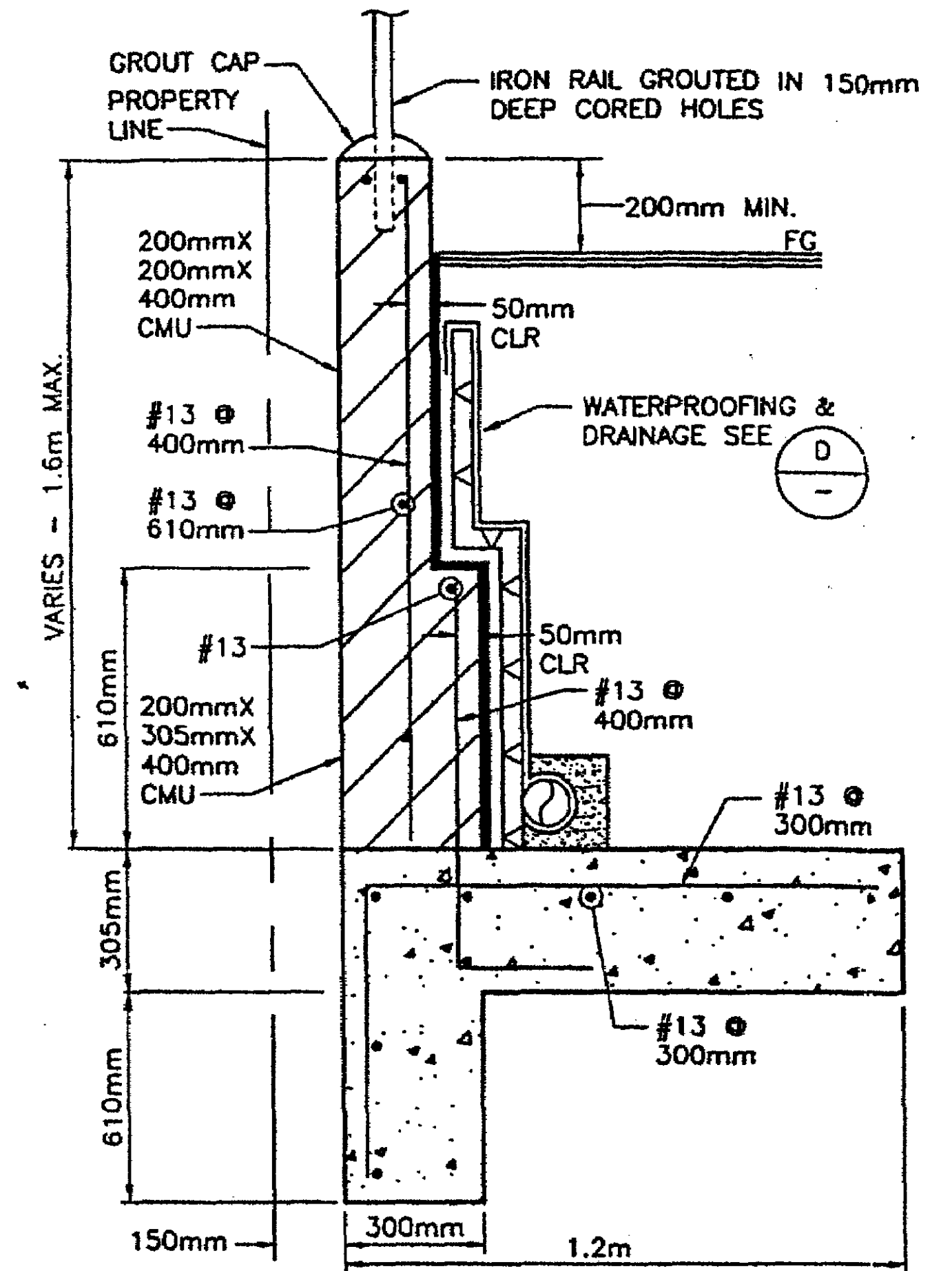


RAILROAD TRANSPORTATION CENTER
RETAINING WALL PLAN AND PROFILE

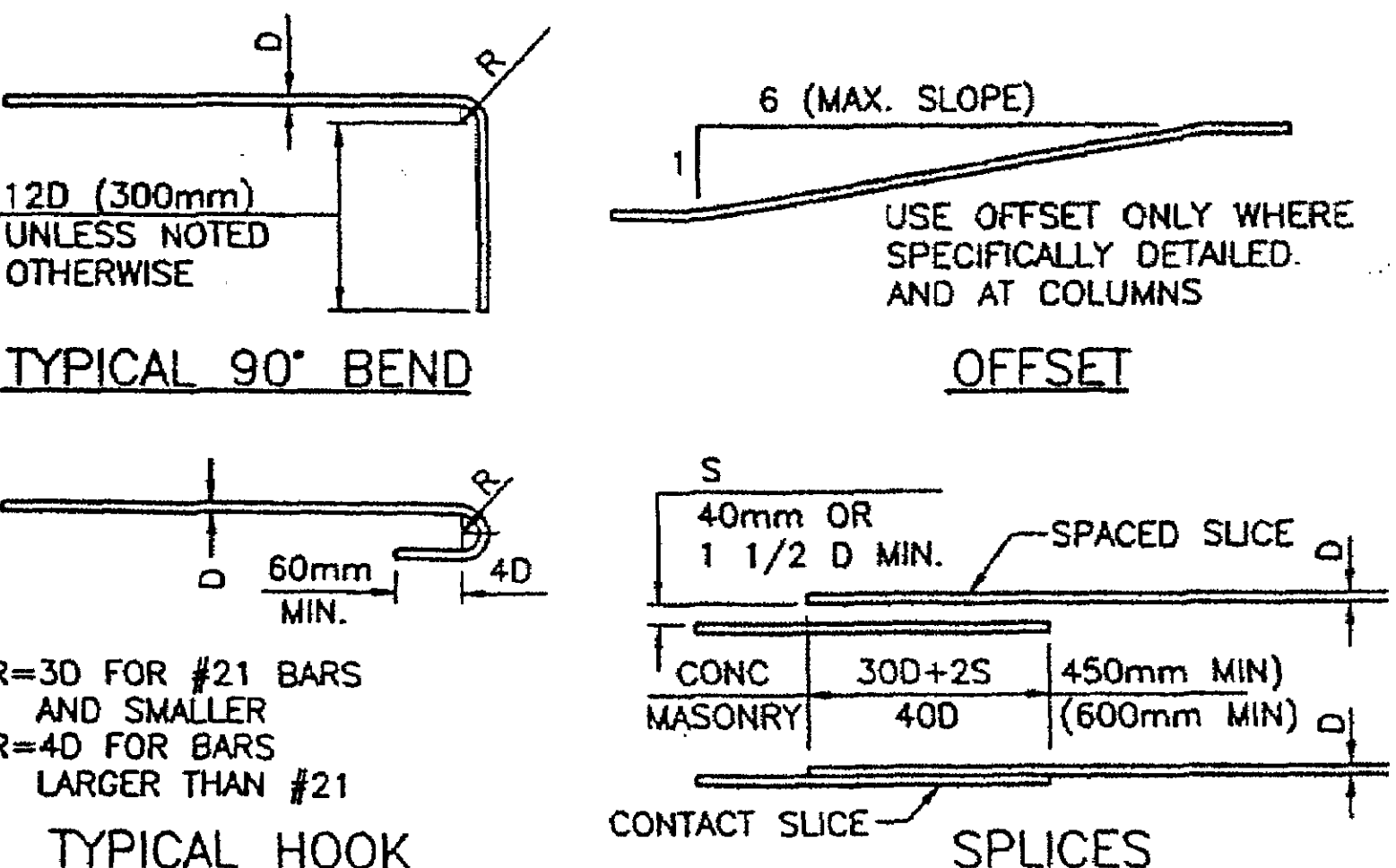
DESIGNED BY: AJR/JMT
DRAWN BY: AJR
CHECKED BY: JAN
APPROVED BY: RLB
DATE: 01/28/00
CITY SPECIFICATION NO. 99059B
SHEET NO.



TYPICAL WATERPROOFING/DRAINAGE (D)
TYPICAL WALL SECTION < 1.4M
 N.T.S.

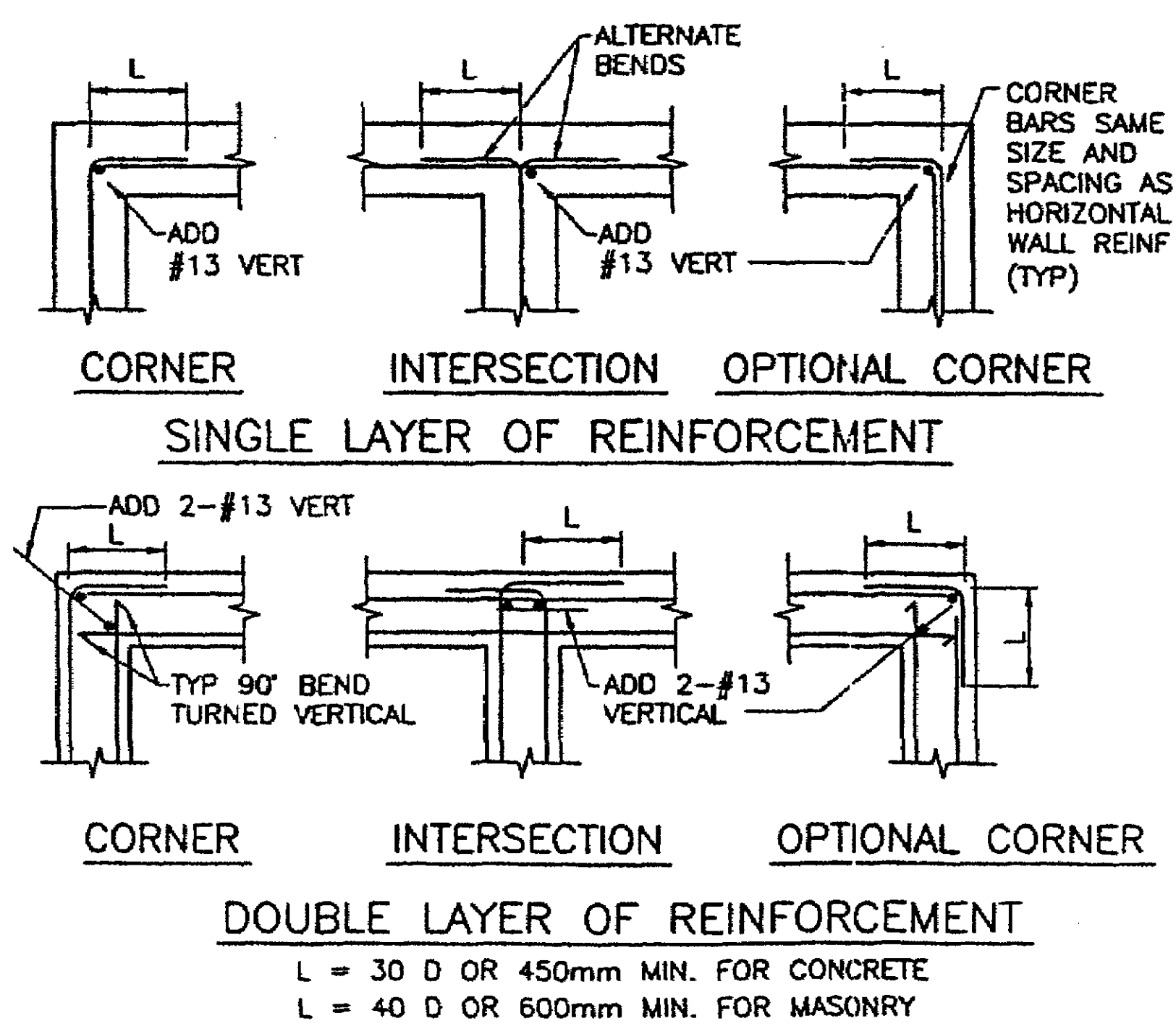


TYPICAL WALL SECTION 1.4M < H ≤ 1.6M (E)
 N.T.S.



TYPICAL BAR BEND DETAILS (A)
 N.T.S.

TYPICAL FOOTING STEP (C)
 N.T.S.



TYP. REINFORCING AT INTERSECTIONS AND CORNERS (B)
 N.T.S.

CONCRETE NOTES

1. CONCRETE SHALL BE READY-MIXED, HARDROCK CONCRETE, CONFORMING TO UBC STANDARD 19-3. MINIMUM 28-DAY COMPRESSIVE STRENGTH SHALL BE: 3000 PSI FOR FOUNDATIONS AND DITCHES.
2. THE LOCATION OF CONSTRUCTION JOINTS NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE.
3. CONTINUOUS INSPECTION BY A CERTIFIED INSPECTOR IS REQUIRED FOR THE PLACEMENT OF ALL CONCRETE, INCLUDING GROUT.

REINFORCING STEEL

1. REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60. CERTIFIED MILL TEST REPORTS WHICH ARE TRACEABLE TO THE STEEL USED ON THE JOB SHALL BE DELIVERED TO THE INSPECTOR UPON REQUEST.
 2. REINFORCING STEEL SHALL BE SECURELY TIED IN PLACE, INSPECTED AND APPROVED BY THE INSPECTOR BEFORE CONCRETE OR GROUT IS PLACED.
 3. SPLICES SHALL ONLY BE AS SHOWN OR NOTED ON THE DRAWINGS. SPLICES SHALL BE STAGGERED FROM SPLICES OF ADJACENT BARS.
 4. PLACING TOLERANCES ARE AS FOLLOWS:
 DEPTH: 10mm PLUS OR MINUS
 CLEARANCES: 0 MINUS, 10mm PLUS
 LONGITUDINAL OR TRANSVERSE: 50mm PLUS OR MINUS
- CLEARANCES (CONCRETE COVER) SHALL BE THE FOLLOWING, UNLESS OTHERWISE SHOWN OR NOTED:
 WHERE PLACED AGAINST EARTH: 75mm WHERE EXPOSED TO EARTH OR WEATHER:
 #19 BARS & LARGER 50mm
 #16 BARS & SMALLER 38mm

PROJECT GENERAL NOTES

1. TYPICAL DETAILS APPLY WHETHER OR NOT THEY ARE SPECIFICALLY REFERENCED ON INDIVIDUAL PLANS, DETAILS OR SECTIONS.
 2. THE CONSTRUCTOR SHALL VERIFY DIMENSIONS AND CONDITIONS AT THE SITE BEFORE STARTING WORK. ANY CONFLICT BETWEEN DETAILS OR DIMENSIONS ON THE DRAWINGS SHALL BE REPORTED PROMPTLY TO THE OWNER'S REPRESENTATIVE WHO WILL DETERMINE THE INTENT OF THE DRAWINGS.
 3. ALL CONSTRUCTION AND MATERIALS SHALL COMPLY WITH THE UNIFORM BUILDING CODE, 1997 EDITION.
 4. DESIGN IS BASED ON A GEOTECHNICAL INVESTIGATION AND REPORT PRODUCED BY FUGRO WEST, DATED 8/31/99.
- ALLOWABLE SOIL BEARING PRESSURE: 95 KPA
 ACTIVE EQUIV. FLUID PRESSURE: 6.5 KN/M³
 TRAFFIC = 4.6 KPA
 COEFFICIENT OF SLIDING FRICTION: 0.35
 ULTIMATE PASSIVE EQUIVALENT FLUID PRESSURE: 36 KN/M³
5. RETAINING WALL BACKFILL SHALL BE PLACED IN 200mm MAXIMUM LIFTS, MOISTURE CONDITIONED, AND COMPACTED TO A MINIMUM OF 90 PERCENT OF MAXIMUM DRY DENSITY PER ASTM D1557-91. BACKFILL MATERIAL SHALL MEET THE GRADATION REQUIREMENTS GIVEN IN THE PROJECT SPECIFICATIONS WITH A SAND EQUIVALENT OF 30 OR MORE, AND EXPANSION INDEX LESS THAN 20.
 6. SOILS BENEATH RETRAINING WALL FOUNDATION SHALL BE OVEREXCAVATED TO A DEPTH OF 0.5 METERS. THE EXPOSED SUBGRADE SHALL BE COMPACTED TO A MINIMUM OF 90 PERCENT RELATIVE COMPACTION. FILL PLACED TO THE FOOTING SUBGRADE SHALL BE COMPACTED TO A MINIMUM OF 90 PERCENT RELATIVE COMPACTION.
 7. ELEVATIONS AND COORDINATES ARE BASED ON SURVEY INFORMATION BY WILSON LAND SURVEYS.

CONCRETE MASONRY

1. UNITS SHALL BE MEDIUM-WEIGHT, CONFORMING TO UBC STANDARD 21-4, GRADE N. MINIMUM AVERAGE COMPRESSIVE STRENGTH IS 1900 PSI. NOMINAL DIMENSIONS ARE 200mmx200mmx400mm, EXCEPT WHERE NOTED. OPEN-ENDED BLOCKS SHALL BE USED. UNITS SHALL BE SPLIT-FACED.
2. MORTAR SHALL BE TYPE S, PROPORTIONED BY VOLUME, IN ACCORDANCE WITH UBC TABLE 21-A.
3. GROUT SHALL BE READY-MIXED, WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2000 PSI. SIKA GROUT AID SHALL BE ADDED TO THE MIX AT THE JOB SITE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. GROUT SHALL BE SAMPLED DAILY FOR TESTING. GROUT ALL CELLS.
4. UNITS SHALL BE LAID IN A RUNNING BOND PATTERN WITH 10mm MORTAR JOINTS ON EACH SIDE, UNLESS NOTED OTHERWISE, JOINTS SHALL BE TOOLED CONCAVE.
5. WHERE CELLS CONTAIN REINFORCING STEEL, THEY SHALL BE KEPT FREE OF MORTAR DROPPINGS AND OTHER DEBRIS. IF NECESSARY, CLEANOUTS SHALL BE USED.
6. VIBRATORS SHALL BE USED TO CONSOLIDATE GROUT - PUDDLING IS NOT ACCEPTABLE. VIBRATORS SHALL BE INSERTED TO THE BOTTOM OF THE CELL AND SLOWLY WITHDRAWN.
7. SPECIAL INSPECTION BY A LICENSED DEPUTY BUILDING INSPECTOR IS REQUIRED FOR PLACEMENT OF UNITS AND GROUT.

APPROVED

DEC 04 2000

BUILDING DIVISION
 CITY OF SAN LUIS OBISPO



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NOV 15 2000

CITY OF SAN LUIS OBISPO
 BUILDING DIVISION



city of
san luis obispo

RAILROAD TRANSPORTATION CENTER

RETAINING WALL STRUCTURAL NOTES AND DETAILS

DESIGNED BY: AJR/JMT
 DRAWN BY: AJR
 CHECKED BY: JAN
 APPROVED BY: RLB
 DATE: 04/28/00
 CITY SPECIFICATION NO. 990598
 SHEET NO. 2 of 2

Job #: VES550010
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