



City of Beaumont

550 E. 6th Street
Beaumont, CA 92223
(951) 769-8520
www.ci.beaumont.ca.us

Case No. PW2019-0413
Receipt No. 946571
Fee \$ 484.43 App / \$3,000 Insp Fees
Date Paid 10/31/19

BOND EXONERATION APPLICATION

Bond Type: Performance Maintenance Final Monument Inspection Other: _____

1. Contact's Name KEVIN METCALFE Phone 949-236-1042

2. Contact's Address 400 EXCHANGE SUITE 200 IRVINE CA 92602
City/State/Zip

5. Contact's E-mail KMETCALFE@KHOV.COM

3. Developer Name K-HOVANNAN HOMES Phone 714-368-4500
(If corporation or partnership application must include names of principal officers or partners)

4. Developer Address 400 EXCHANGE SUITE 200 IRVINE CA 92602
City/St/Zip

5. Description of Bonds (including Bond Number, Tract Map/Application number, Lot number, and description of improvements covered):
TRACT # 33096-13 BOND # 2264721 STORM DRAIN

6. **CERTIFICATION OF ACCURACY AND COMPLETENESS:** I hereby certify that to the best of my knowledge the information in this application and all attached answers and exhibits are true, complete, and correct.

KEVIN METCALFE [Signature] 10-30-19
Print Name and Sign - Contact/Applicant Date

7. Contractor shall indemnify, defend, and hold harmless the City and its officers, officials, employees and volunteers from and against any and all liability, loss, damage, expense, costs (including without limitation costs and fees of litigation) of every nature arising out of or in connection with contractor's performance of work hereunder or its failure to comply with any of its obligations for which this Bond exoneration is requested, except for such loss or damage which was caused by the active negligence of the City.

KEVIN METCALFE [Signature] 10-30-19
Print Name and Sign - Contact/Applicant Date

8. Developer/Contractor has completed all the following items prior to requesting release or has included them in the application.

- Remove and replace concrete and AC as needed where lifting.
- Provide AC crack fill as needed. Crack fill/seal shall be hot asphaltic emulsion.
- Provide Type II slurry coat for all road surfaces.
- Restore/Verify pavement striping/markings.
- Restore/Verify blue dots and signage as needed.
- Clean and camera sewer. Provide report and video copy of camera survey.
- Provide all final geotechnical reports.
- Provide Engineers' certification for line and grade within Right-of-Way.
- Provide Landscape Architects Certification as required.

KEVIN METCALFE [Signature] 10-30-19
Print Name and Sign - Contact/Applicant Date

GENERAL NOTES:

1. THE CONTRACTOR SHALL CONSTRUCT THE FLOOD CONTROL IMPROVEMENT SHOWN ON THE DRAWINGS IN CONFORMANCE WITH THE STANDARDS SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION REQUIREMENTS OF THE RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT'S MEMORANDUM OF UNDERSTANDING STANDARD SPECIFICATION, DATED SEPTEMBER 1984, AND DESIGN MANUAL STANDARD DRAWINGS, RECENT EDITION, AND IN CONFORMANCE WITH THE REQUIREMENTS OF THE BEAUMONT DRAINAGE MANAGEMENT PLAN.
2. THE CONTRACTOR IS REQUIRED TO CONTACT ALL UTILITY AGENCIES REGARDING TEMPORARY SUPPORT AND SHORING REQUIREMENTS FOR THE VARIOUS UTILITIES SHOWN IN THE PLANS.
3. CONSTRUCTION INSPECTION WILL BE PERFORMED BY CITY OF BEAUMONT. CONTACT (951)769-8520. THE CITY MUST BE NOTIFIED ONE WEEK PRIOR TO CONSTRUCTION.
4. ALL STATIONING REFERS TO THE CENTERLINE OF CONSTRUCTION UNLESS OTHERWISE NOTED.
5. STATIONING FOR LATERALS AND CONNECTOR PIPE REFER TO THE CENTERLINE -CENTERLINE INTERSECTION STATION.
6. FORTY-EIGHT HOURS BEFORE EXCAVATION, CALL UNDERGROUND SERVICE ALERT 8-1-1.
7. ALL CROSS SECTIONS ARE TAKEN LOOKING UPSTREAM.
8. ELEVATIONS AND LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE UNLESS OTHERWISE NOTED. ALL UTILITIES ARE TO BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.
9. OPENING RESULTING FROM THE CUTTING OR PARTIAL REMOVAL OF EXISTING CULVERTS, PIPES OR SIMILAR STRUCTURES TO BE ABANDONED SHALL BE SEALED WITH 6 INCHES OF CLASS "B" CONCRETE.
10. PIPE CONNECTED TO THE MAINLINE PIPE SHALL CONFORM TO JUNCTION STRUCTURE NO. 4 (JS 229) UNLESS OTHERWISE NOTED.
11. PIPE BEDDING SHALL CONFORM TO RCF&C & WCD STD. DWG. M 815.
12. "V" IS THE DEPTH OF INLET AND THE CATCH BASIN MEASURE FROM THE TOP OF CURB TO INVERT OF CONNECTOR PIPE.
13. ALL CURBS, GUTTERS, SIDEWALKS, DRIVEWAYS AND OTHER EXISTING IMPROVEMENTS TO BE RECONSTRUCTED IN KIND PER LATEST C.O. STANDARD AND AT THE SAME ELEVATION AND LOCATION AS THE EXISTING IMPROVEMENTS UNLESS OTHERWISE NOTED. FOR PAVEMENT OVERLAY, 0.10' FOR LANE WIDTH IS REQUIRED.
14. HYDRAULIC GRADE LINES SHOWN IN PROFILES ARE FOR 100 YEAR FREQUENCY FLOWS, UNLESS OTHERWISE NOTED.
15. THE CONTRACTOR SHALL COMPLY WITH THE STATE AND LOCAL SAFETY CODES DURING THE PROGRESS OF WORK.
16. THE CONTRACTOR SHALL MAINTAIN ADJACENT STREETS IN A NEAT, SAFE, CLEAN AND SANITARY CONDITION AT ALL TIMES AND TO THE SATISFACTION OF THE CITY'S OR DISTRICT'S INSPECTOR. THE ADJACENT STREETS SHALL BE KEPT CLEAR OF DEBRIS, WITH DUST AND OTHER NUISANCE BEING CONTROLLED AT ALL TIMES. THE DEVELOPER SHALL BE RESPONSIBLE FOR ANY CLEAN-UP ON ADJACENT STREETS AFFECTED BY HIS CONSTRUCTION. METHOD OF STREET CLEANING SHALL BE DRY SWEEPING OF ALL PAVED AREAS.
17. THE CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER, CITY OF BEAUMONT, AND THE DEVELOPER'S ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNERS, OR THE DEVELOPER'S ENGINEER.
18. ALL PIPE LENGTHS ARE HORIZONTAL PROJECTIONS (NOT TRUE LENGTHS OF PIPE) AND ARE THE BASIS OF THE ESTIMATES OF QUANTITIES. THE CONTRACTOR SHALL DETERMINE THE TRUE QUANTITY OF PIPE REQUIRED FOR THIS PROJECT PRIOR TO PLACING THE ORDER.
19. ALL ELEVATIONS SHOWN ARE TO THE INVERTS OF PIPE, EXCEPT WHERE OTHERWISE NOTED.
20. AT THE DISCRETION OF THE ENGINEER AND THE CITY OF BEAUMONT, THE CONTRACTOR MAY BE REQUIRED TO VERIFY BY POT-HOLING THE LOCATION OF POTENTIALLY AFFECTED UTILITIES.
21. CONTRACTOR SHALL DISPOSE OF ALL EXCESS EXCAVATED MATERIAL AT MANDATORY DISPOSAL SITE.
22. ALL BACKFILL AND BEDDING AROUND STRUCTURES AND PIPES SHALL BE COMPACTED TO NOT LESS THAN 90 PERCENT RELATIVE COMPACTION EXCEPT WHERE SUCH MATERIAL IS PLACED UNDER EXISTING PAVED ROADWAYS, THE TOP 3 FEET, MEASURED FROM THE FINISH PAVING, SHALL BE COMPACTED TO 95 PERCENT RELATIVE COMPACTION.
23. ALL SURVEY MONUMENTS SHALL BE REPLACED AS REQUIRED. MONUMENTS SHALL BE TIED OUT PRIOR TO CONSTRUCTION AND REPLACED UPON COMPLETION OF CONSTRUCTION.
24. ALL STORM DRAINS, CATCH BASINS, AND STORM WATER RUNOFF STRUCTURES WILL BE PROVIDED WITH ADEQUATE CAPABILITIES TO FILTER AND RETAIN SEDIMENT AND DIRTY, OIL AND GREASE, TO PREVENT POLLUTION IN STORM WATER RUNOFF IN COMPLIANCE WITH THE CITY OF BEAUMONT'S BEST MANAGEMENT PRACTICES AND THE BEAUMONT DRAINAGE MASTER PLAN FOR STORM WATER AS WELL AS BEST MANAGEMENT PRACTICES IDENTIFIED IN THE CURRENT REPORT OF WASTE DISCHARGE FOR RIVERSIDE COUNTY PERMITTEES.
25. DEVELOPER SHALL BE FULLY RESPONSIBLE IN ASSURING THAT PROPOSED IMPROVEMENTS CONFORM TO THE APPROVED PLANS, SPECIFICATIONS AND CITY OF BEAUMONT STANDARDS. WHERE DEVIATIONS EXIST, DEVELOPER SHALL PROPOSE CORRECTIVE MEASURES FOR REVIEW AND APPROVAL BY THE CITY.

LEGAL DESCRIPTION:

BEING A SUBDIVISION OF A PORTION OF LOT 5 OF TRACT NO. 32259 ON FILE IN BOOK 371, PAGES 22 THROUGH 27, INCLUSIVE, OF MAPS IN THE OFFICE OF THE COUNTY RECORDER OF RIVERSIDE COUNTY, CALIFORNIA, BEING LOCATED IN SECTION 14, T. 3-S., R. 1-W., S.B.M. APN NUMBER 428-030-023

NOTE: WORK CONTAINED WITHIN THESE PLANS SHALL NOT COMMENCE UNTIL AN ENCROACHMENT PERMIT AND/OR A GRADING PERMIT HAS BEEN ISSUED.

BENCHMARK: CITY OF BEAUMONT NO. 14-A-B2

THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE DESIGN HEREON. IN THE EVENT OF DISCREPANCIES ARISING AFTER CITY APPROVAL OR DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVED BY THE CITY.

1-3/8" BRASS CAP MONUMENT MARKED "CITY B.M. 14", LOCATED AT THE S'LY SIDE OF 6TH STREET 235' W'LY OF CENTERLINE INTERSECTION ALLEGHENY AVENUE.
ELEV.= 2590.838 (1982)
DATUM: NAD83/29



BASIS OF BEARINGS:
DESCRIPTION:
THE BEARINGS SHOWN HEREON ARE BASED ON THE CENTERLINE OF FOUR SEASONS CIRCLE AS SHOWN ON TRACT NO. 33096-7 AS SHOWN ON A MAP FILED IN BOOK 440, PAGES 50 THROUGH 56, INCLUSIVE, OF MAPS IN THE OFFICE OF THE COUNTY RECORDER OF RIVERSIDE COUNTY, CALIFORNIA.
BEARING: N 31°38'05" W

NPDES: WHEN ONE ACRE OR MORE IS BEING DISTURBED:

1. CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (BMPs) FOR THE MANAGEMENT OF STORM WATER AND NON-STORMWATER DISCHARGES SHALL BE DOCUMENTED ON THE GRADING PLAN. ARRANGEMENTS SHALL BE MADE BY THE DEVELOPER TO RETAIN THE SWPPP ON THE JOBSITE THROUGHOUT THE TIME OF CONSTRUCTION. THE IMPLEMENTATION AND MAINTENANCE OF THE SITE BMPs IS REQUIRED TO MINIMIZE JOBSITE EROSION AND SEDIMENTATION. ARRANGEMENTS SHALL BE MADE BY THE DEVELOPER TO MAINTAIN THOSE BMPs THROUGHOUT THE TIME OF CONSTRUCTION.
2. EROSION CONTROL BMPs SHALL BE IMPLEMENTED AND MAINTAINED TO PREVENT AND/OR MINIMIZE THE ENTRAINMENT OF SOIL IN RUNOFF FROM DISTURBED SOIL AREAS ON CONSTRUCTION SITES.
3. SEDIMENT CONTROL BMPs SHALL BE IMPLEMENTED AND MAINTAINED TO PREVENT AND/OR MINIMIZE THE TRANSPORT OF SOIL FROM THE CONSTRUCTION SITE.
4. GRADING SHALL BE PHASED TO LIMIT THE AMOUNT OF DISTURBED AREA EXPOSED TO THE EXTENT FEASIBLE.
5. AREAS THAT ARE CLEARED AND GRADED SHALL BE LIMITED TO ONLY THE PORTION OF THE SITE THAT IS NECESSARY FOR CONSTRUCTION. THE CONSTRUCTION SITE SHALL BE MANAGED TO MINIMIZE THE EXPOSURE TIME OF DISTURBED SOIL AREAS THROUGH PHASING AND SCHEDULING OF GRADING AND THE USE OF TEMPORARY AND PERMANENT SOIL STABILIZATION.
6. ONCE DISTURBED, SLOPES (TEMPORARY OR PERMANENT) SHALL BE STABILIZED IF THEY WILL NOT BE WORKED WITHIN 21 DAYS. DURING STORM SEASON, ALL SLOPES SHALL BE STABILIZED PRIOR TO PREDICTED STORM EVENT. CONSTRUCTION SITES SHALL BE REVEGETATED AS EARLY AS FEASIBLE AFTER SOIL DISTURBANCE.
7. STOCKPILES OF SOIL SHALL BE PROPERLY CONTAINED TO ELIMINATE OR REDUCE SEDIMENT TRANSPORT FROM SITES OR STREETS, DRAINAGE FACILITIES OR ADJACENT PROPERTIES VIA RUNOFF, VEHICLE TRACKING, OR WIND.
8. CONSTRUCTION SITE SHALL BE MAINTAINED IN SUCH A MANNER THAT A STORM DOES NOT CARRY WASTES OR POLLUTANT OFF THE SITE. DISCHARGES OTHER THAN STORMWATER (NON-STORMWATER DISCHARGES) ARE PROHIBITED, EXCEPT AS AUTHORIZED BY AN INDIVIDUAL NPDES PERMIT, THE STATEWIDE GENERAL PERMIT-CONSTRUCTION ACTIVITY. POTENTIAL POLLUTANT INCLUDE BUT ARE NOT LIMITED TO: SOLID OR LIQUID CHEMICAL SPILLS; WASTES FROM PAINTS, STAINS, SEALANTS, SOLVENTS, DETERGENTS, GLUES, LIME, PESTICIDES, HERBICIDES, FERTILIZERS, WOOD PRESERVATIVES, AND ASBESTOS FIBERS; PAINT FLAKES OR STUCCO FRAGMENTS; FUELS, OILS, LUBRICANTS, AND HYDRAULIC FLUIDS; BATTERIES; BATTERY FLUIDS, CONCRETE AND RELATED CUTTING OR CURING RESIDUES; FLOATING WASTES; WASTES FROM ENGINE/EQUIPMENT STEAM CLEANING OR CHEMICAL DEGREASING; WASTES FROM STREET CLEANING; AND SUPER-CHLORINATED POTABLE WATER FROM LINE FLUSHING AND TESTING. DURING CONSTRUCTION, DISPOSAL OF SUCH MATERIALS SHOULD OCCUR IN A SPECIFIED AND CONTROLLED TEMPORARY AREA ON-SITE PHYSICALLY SEPARATE FROM POTENTIAL STORMWATER RUNOFF, WITH ULTIMATE DISPOSAL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS.
9. RUNOFF FROM EQUIPMENT AND VEHICLE WASHING SHALL BE CONTAINED AT CONSTRUCTION SITE AND MUST NOT BE DISCHARGED TO RECEIVING WATERS OR LOCAL STORM DRAIN SYSTEM.
10. APPROPRIATE BMPs FOR CONSTRUCTION-RELATED MATERIALS, WASTES, SPILLS OR RESIDUES SHALL BE IMPLEMENTED TO ELIMINATE OR REDUCE TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES, OR ADJOINING PROPERTIES BY WIND OR RUNOFF.
11. ALL CONSTRUCTION CONTRACTORS AND SUBCONTRACTOR PERSONNEL ARE TO BE TRAINED IN THE IMPLEMENTATION AND USE OF THE REQUIRED BMPs AND GOOD HOUSEKEEPING MEASURES FOR THE PROJECT SITE AND ANY ASSOCIATED CONSTRUCTION STAGING AREAS AND ALL TRAINING DOCUMENTATION SHALL BE MAINTAINED IN THE SWPPP.
12. DISCHARGING CONTAMINATED GROUNDWATER PRODUCED BY DEWATERING GROUNDWATER THAT HAS INFILTRATED INTO THE CONSTRUCTION SITE IS PROHIBITED. DISCHARGING OF CONTAMINATED SOILS VIA SURFACE EROSION IS ALSO PROHIBITED. DISCHARGING NON-CONTAMINATED GROUNDWATER PRODUCED BY DEWATERING ACTIVITIES MAY REQUIRE A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FROM THE REGIONAL WATER QUALITY CONTROL BOARD.
13. BMPs SHALL BE MAINTAINED AT ALL TIMES. IN ADDITION, BMPs SHALL BE INSPECTED PRIOR TO PREDICTED STORM EVENTS AND FOLLOWING STORM EVENTS.
14. AT THE END OF EACH DAY OF CONSTRUCTION ACTIVITY, ALL CONSTRUCTION DEBRIS AND WASTE MATERIALS SHALL BE COLLECTED AND PROPERLY DISPOSED OF IN TRASH OR RECYCLE BINS.

PRIVATE ENGINEERS NOTICE TO CONTRACTOR(S)

1. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT THOSE SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN, AND ANY OTHER LINES OR STRUCTURES NOT SHOWN ON THESE PLANS, AND IS REQUIRED FOR THE PROTECTION OF, AND ANY DAMAGE TO THESE LINES OR STRUCTURES.
2. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE OWNER OF ALL UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE OWNER OF ALL UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK.
3. QUANTITIES SHOWN HEREON ARE PROVIDED FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES PRIOR TO BIDDING FOR CONSTRUCTION.
4. THE DEVELOPER SHALL HAVE GEOTECHNICAL/SOILS ENGINEERING FIRM OBSERVE TRENCHING, BACKFILLING, AND SOIL COMPACTION OF ALL UTILITY TRENCHES WITHIN ALL EASEMENTS AND ROAD RIGHT OF WAY. TWO SETS OF COMPACTION REPORTS CERTIFYING THAT WORKS WERE DONE IN CONFORMANCE TO STANDARDS AND GEOTECHNICAL REPORTS SHALL BE SUBMITTED AFTER EACH UTILITY TRENCH IS COMPLETED AND CERTIFIED. COMPACTION REPORT MUST BE SUBMITTED TO THE DEPT. OF PUBLIC WORKS AT LEAST TWO WORKING DAYS BEFORE AGGREGATE BASE MATERIALS ARE PLACED ON SITE.

DECLARATION OF ENGINEER OF RECORD:

I HEREBY DECLARE THAT IN MY PROFESSIONAL OPINION, THE DESIGN OF THE IMPROVEMENTS AS SHOWN ON THESE PLANS COMPLIES WITH THE CURRENT PROFESSIONAL ENGINEERING STANDARDS AND PRACTICES. AS THE ENGINEER IN RESPONSIBLE CHARGE AS DEFINED IN SECTION 6703 OF THE BUSINESS & PROFESSIONS CODE OF THE DESIGN OF THESE IMPROVEMENTS, I ACCEPT FULL RESPONSIBILITY FOR SUCH DESIGN. I UNDERSTAND AND ACKNOWLEDGE THAT THE PLAN CHECK OF THESE PLANS BY THE CITY OF BEAUMONT IS A REVIEW FOR THE LIMITED PURPOSE OF ENSURING THAT THESE PLANS COMPLY WITH CITY PROCEDURES AND OTHER APPLICABLE CODES AND ORDINANCES. THE PLAN REVIEW PROCESS IS NOT A DETERMINATION OF THE TECHNICAL ADEQUACY OF THE DESIGN OF THE IMPROVEMENTS. SUCH PLAN CHECK DOES NOT THEREFORE RELIEVE ME OF MY DESIGN RESPONSIBILITY.

AS THE ENGINEER OF RECORD, I AGREE TO DEFEND AND INDEMNIFY THE CITY OF BEAUMONT, ITS OFFICERS, ITS AGENTS, AND ITS EMPLOYEES FROM ANY AND ALL LIABILITY, CLAIMS, DAMAGES, LOSSES, OR INJURIES TO ANY PERSON OR PROPERTY ARISING FROM NEGLIGENT ACTS, ERRORS OR OMISSIONS OF THE ENGINEER OF RECORD, HIS EMPLOYEES, HIS AGENTS OR HIS CONSULTANTS.

SIGNATURE: *[Signature]* DATE: 9/21/17
LICENSE No. R.C.E. 63249 EXP. 6-30-2018



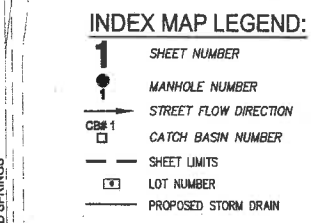
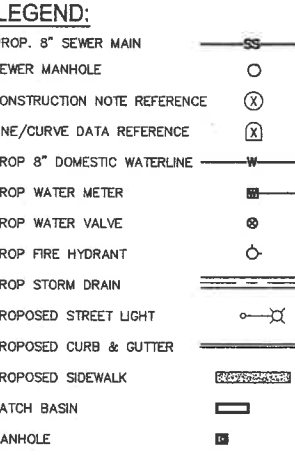
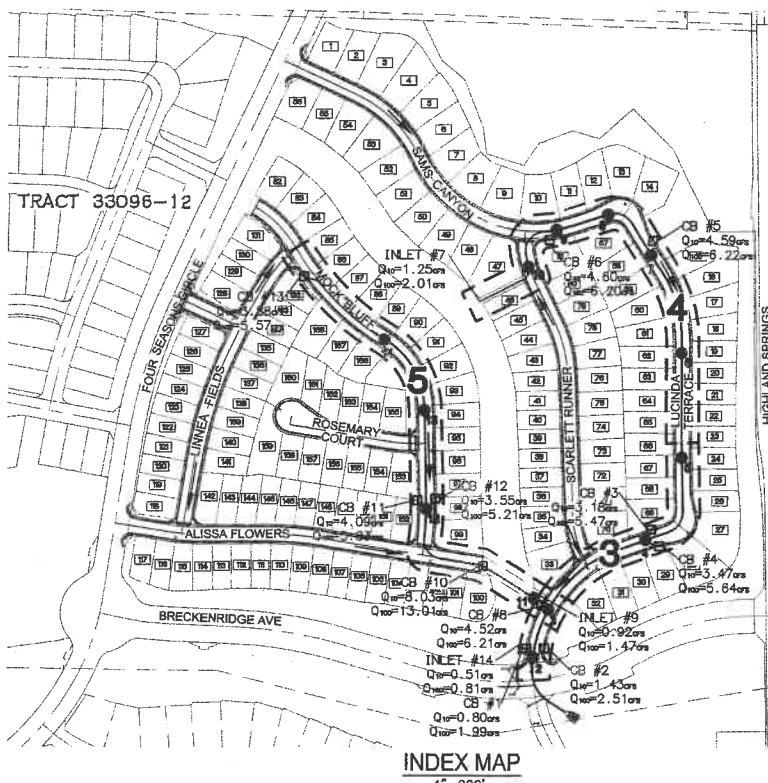
MAURICIO M. IACULLI
R.C.E. 63249 EXP. 6-30-2018
DATE: 9/21/17

CITY OF BEAUMONT, CA

STORM DRAIN IMPROVEMENT PLANS

K. HOVNANIAN'S FOUR SEASONS AT BEAUMONT

TRACT NO. 33096-13



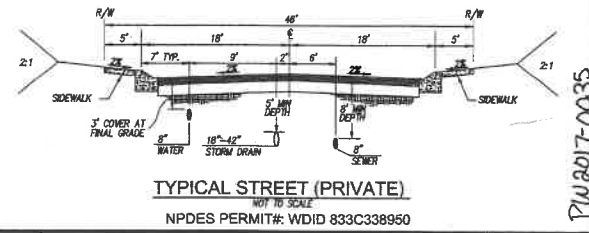
ABBREVIATIONS:

- ASSEMBLY ASSY
- BEAUMONT CHERRY VALLEY WATER DISTRICT. BCVWD
- BEGINNING OF CURVE BC
- BEGIN PIPE BP
- BOTTOM OF PIPE BOP
- CENTERLINE CL OR C/L
- CLEAN OUT CO
- CORRUGATED STEEL PIPE CSP
- CURB FACE CF
- CURB & GUTTER C&G
- DIAMETER DIA
- DOMESTIC WATER DW
- EASEMENT ESMT
- END OF CURVE EC
- END OF PIPE EP
- FINISHED GRADE FG
- FINISHED PAVEMENT FP
- FINISHED SURFACE FS
- FLOWLINE FL
- GATE VALVE GV
- GRADE BREAK GB
- HIGH POINT HP
- HOME OWNERS ASSOCIATION..... HOA
- INVERT INV
- LATERAL LAT
- LOW POINT LP
- MANHOLE MH
- PE PAD ELEVATION
- PRC POINT OF REVERSE CURVATURE
- PROPERTY LINE PL OR P/L
- PROPOSED PROP
- PRIVATE UTILITY EASEMENT..... PUE
- RIGHT-OF-WAY R/W
- SIDEWALK SW
- SANITARY SEWER SS
- STATION STA
- TOP OF CURB TC
- TOP OF MANHOLE TMH
- TOP OF PIPE TOP
- TYP TYPICAL
- U.N.O. UNLESS NOTED OTHERWISE
- UTL UTILITY

SCALE: 1"=200'

CONSTRUCTION NOTES	UNIT	QTY.
1. INSTALL 18" RCP STORM DRAIN PIPE (D-LOAD PER PLAN)	LF	1,120
2. INSTALL 24" RCP STORM DRAIN PIPE (D-LOAD PER PLAN)	LF	1,230
3. INSTALL 30" RCP STORM DRAIN PIPE (D-LOAD PER PLAN)	LF	284
4. INSTALL 36" RCP STORM DRAIN PIPE (D-LOAD PER PLAN)	LF	114
5. INSTALL 42" RCP STORM DRAIN PIPE (D-LOAD PER PLAN)	LF	30
6. CONSTRUCT MANHOLE NO. 1 PER RCF&C & WCD STD. DWG. NO. MH251	EA	12
7. CONSTRUCT MANHOLE NO. 4 PER RCF&C & WCD STD. DWG. NO. MH254	EA	1
8. CONSTRUCT CATCH BASIN NO. 1 PER RCF&C & WCD STD. DWG. NO. CB100 (W & V PER PLAN)	EA	11
9. CONSTRUCT CONCRETE COLLAR PER RCF&C & WCD STD MH03	EA	24
10. INSTALL 12" HDPE STORM DRAIN PIPE (ADS N-12)	LF	3
11. INSTALL 24" SPECIAL COVER RCP STORM DRAIN PIPE WITH 1.5" MINIMUM COVER OVER STEEL ON INSIDE OF PIPE AND 1' c=6,000 PSI (D-LOAD PER PLAN)	EA	174
12. CONSTRUCT SLOPE ANCHOR PER SPPWC STD 221-2	EA	5
13. REMOVE APPROXIMATELY 24' OF EXISTING 42" RCP BACK TO NORTHING/EASTING OF JOIN POINT SHOWN ON PLAN	LS	1
14. CONSTRUCT CSP DROP INLET STRUCTURE PER DETAILS ON SHEET 2	EA	3

SHEET INDEX	
SHEET	DESCRIPTION
1	TITLE SHEET, VICINITY/LOCATION MAPS, & GENERAL NOTES
2	STORM DRAIN DETAILS STORM DRAIN LATERALS G-4, G-5, G-6, G-7, L-1, L-2 AND L-3
3	STORM DRAIN LINE G STA. 10+00.00 TO 18+50.00 STORM DRAIN LATERALS G-2 AND G-3
4	STORM DRAIN LINE G STA. 18+50.00 TO 28+71.17
5	STORM DRAIN LINE L STA. 10+00.00 TO 20+89.49

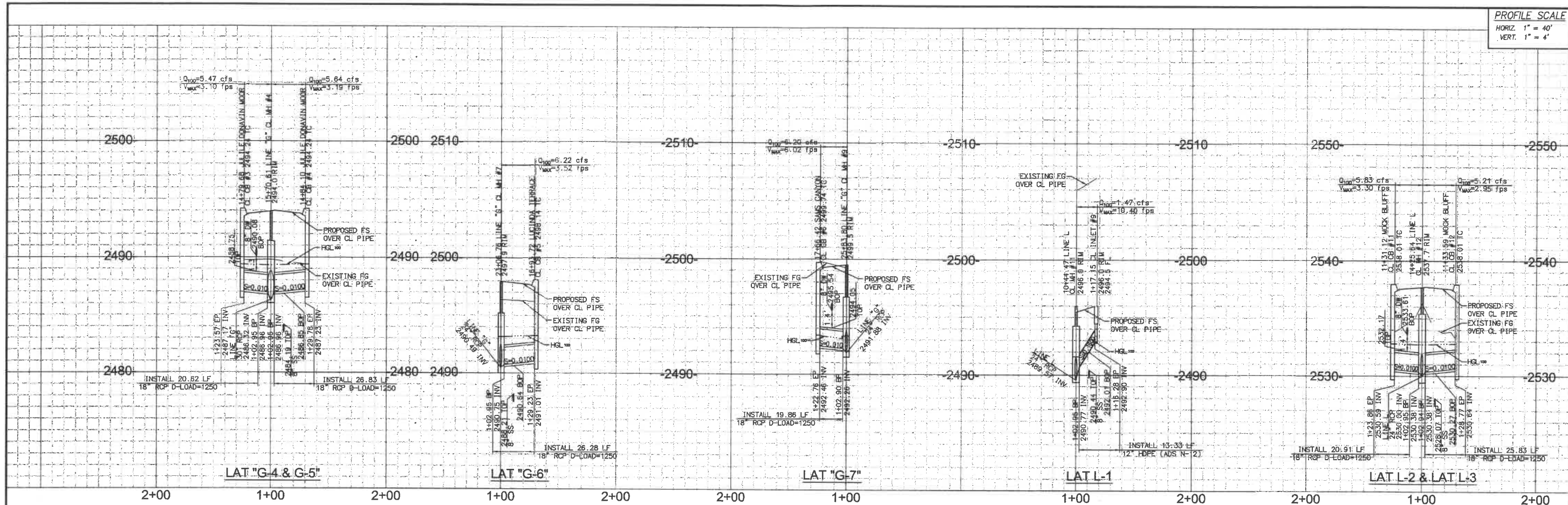


CITY OF BEAUMONT, CALIFORNIA
STORM DRAIN PLANS FOR:
TITLE SHEET * VICINITY MAP * GENERAL NOTES
LOCATION MAP
K. HOVNANIAN

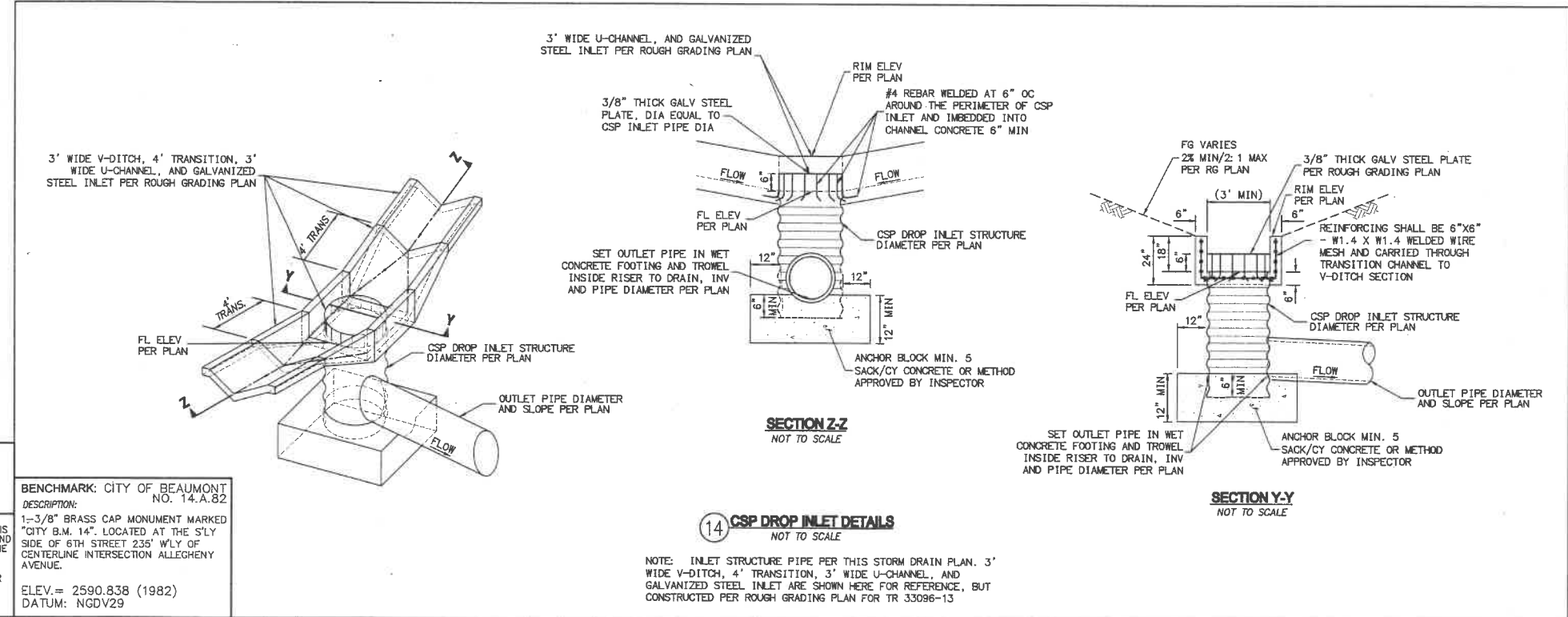
DESIGN BY: RH
DRAIN BY: MJ
CHECKED BY: MJM
SCALE:
DATE: AUGUST 2017
JOB NUMBER: 10103705
Reviewed By: *[Signature]* Staff Engineer Date: 10/9/17
Recommended for Approval By: *[Signature]* Administrative Engineer Date: 10/9/17
Approved By: *[Signature]* Director of Public Works, R.C.E. 50932 Date: 10/11/17
City of Beaumont, Public Works Department 550 E. 6TH STREET BEAUMONT, CA 92223 TEL: (951) 769-8520 * FAX: (951) 769-8526

NO. 13013507-IRVINE-CADD/LAND/DEV/IMP/VEH-EZ/SD (3507)-01-TS.DWG JORDAN, TAYLOR 9/20/2017 1:26 PM
SHEET 1 OF 5 SHEETS
FILE NO.: 3136

PROFILE SCALE
 HORIZ. 1" = 40'
 VERT. 1" = 4'



CONSTRUCTION NOTES
 (14) CONSTRUCT CSP DROP INLET STRUCTURE PER DETAILS ON SHEET 2



NOTE:
 WORK CONTAINED WITHIN THESE PLANS SHALL NOT COMMENCE UNTIL AN ENCROACHMENT PERMIT AND/OR A GRADING PERMIT HAS BEEN ISSUED.

THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE DESIGN HEREON. IN THE EVENT OF DISCREPANCIES ARISING AFTER CITY APPROVAL OR DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISIONS TO THE PLANS FOR APPROVED BY THE CITY.

BENCHMARK: CITY OF BEAUMONT NO. 14.A.82
DESCRIPTION:
 1-3/8" BRASS CAP MONUMENT MARKED "CITY B.M. 14". LOCATED AT THE S'LY SIDE OF 6TH STREET 235' W'LY OF CENTERLINE INTERSECTION ALLEGHENY AVENUE.
ELEV.= 2590.838 (1982)
DATUM: NGDV29

BASIS OF BEARINGS:
DESCRIPTION:
 THE BEARINGS SHOWN HEREON ARE BASED ON THE CENTERLINE OF FOUR SEASONS CIRCLE AS SHOWN ON TRACT NO. 33098-7 AS SHOWN ON A MAP FILED IN BOOK 440, PAGES 50 THROUGH 56, INCLUSIVE, OF MAPS IN THE OFFICE OF THE COUNTY RECORDER OF RIVERSIDE COUNTY, CALIFORNIA.
BEARING: N 31°38'05" W

BY	MARK	DESCRIPTION	APPR. DATE
ENGINEER		REVISIONS	CITY



Michael Baker INTERNATIONAL
 5 Hudson Center Drive, Suite 500
 Santa Ana, CA 92707
 Phone: (949) 472-3505
 MBAKERINTL.COM

DATE: 9/21/17



DESIGN BY: RH
 DRAIN BY: MJ
 CHECKED BY: MMI
 SCALE:
 DATE: AUGUST 2017
 JOB NUMBER: 10103705

Reviewed By: [Signature] Date: 10/9/17
 Recommended for Approval By: [Signature] Date: 10/9/17
 Approved By: [Signature] Date: 10/11/17
 Director of Public Works, R.C.E. 50932
 City of Beaumont, Public Works Department
 Engineering Division

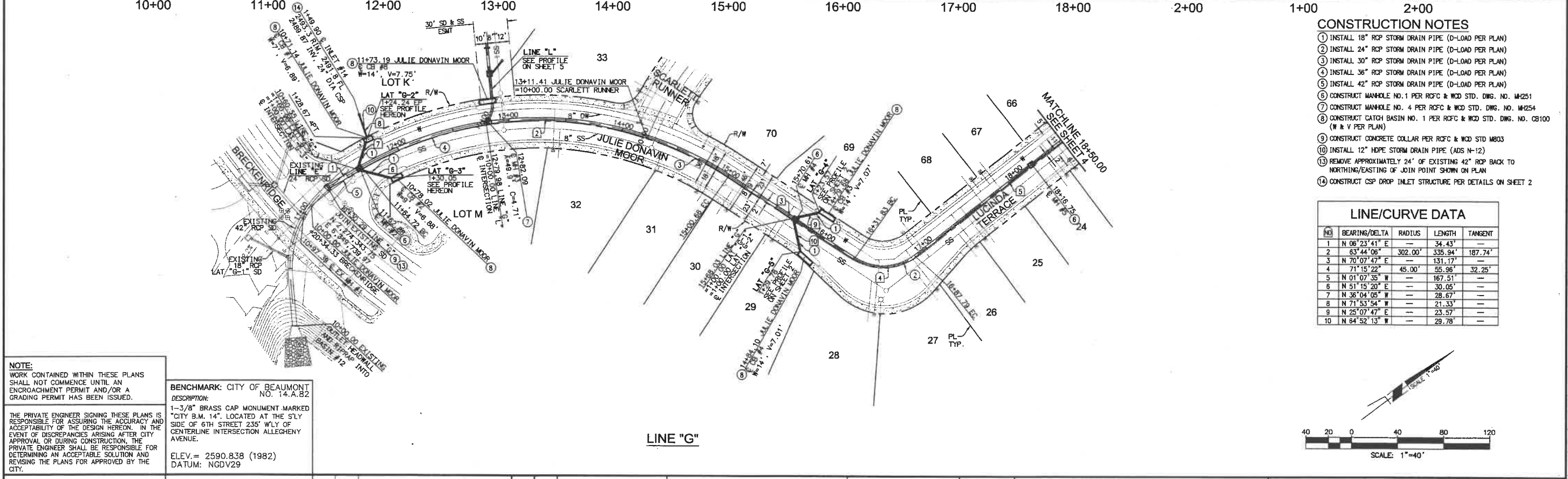
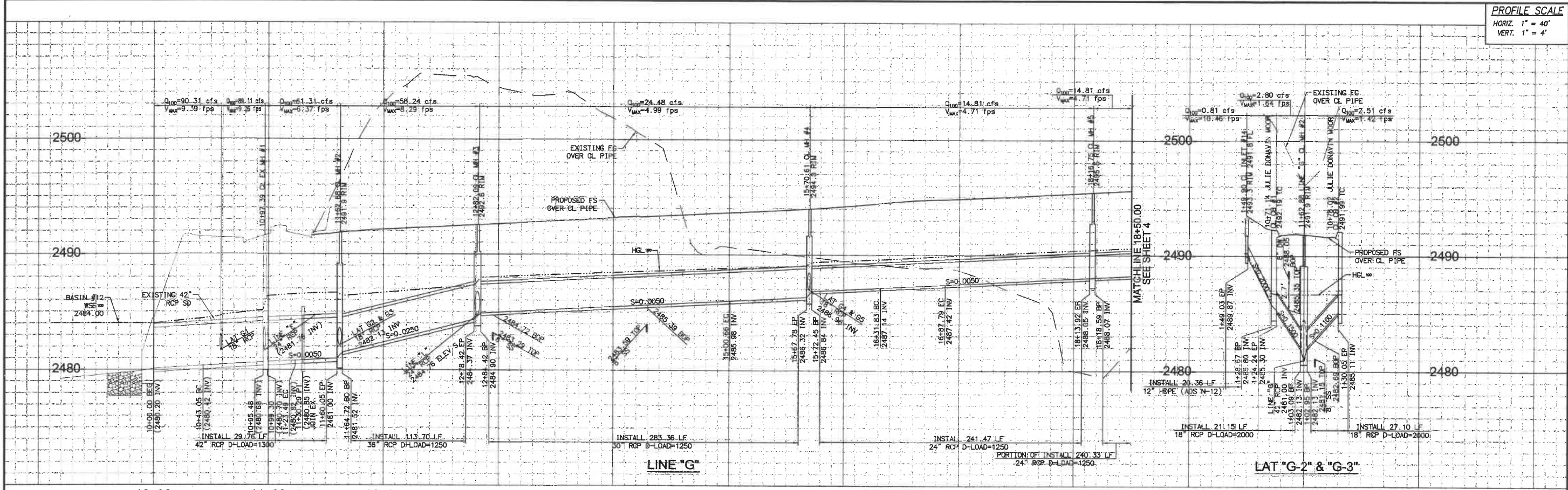
CITY OF BEAUMONT, CALIFORNIA
 STORM DRAIN PLANS FOR:
 STORM DRAIN DETAILS
 SD LAT "G-4", "G-5", "G-6", "G-7", "L-1", "L-2" & "L-3"

FOR: K. HOVNANIAN

SHEET
2
 OF 5 SHEETS
 FILE NO.: 3136

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PROFILE SCALE
 HORIZ. 1" = 40'
 VERT. 1" = 4'



- CONSTRUCTION NOTES**
- INSTALL 18" RCP STORM DRAIN PIPE (D-LOAD PER PLAN)
 - INSTALL 24" RCP STORM DRAIN PIPE (D-LOAD PER PLAN)
 - INSTALL 30" RCP STORM DRAIN PIPE (D-LOAD PER PLAN)
 - INSTALL 36" RCP STORM DRAIN PIPE (D-LOAD PER PLAN)
 - INSTALL 42" RCP STORM DRAIN PIPE (D-LOAD PER PLAN)
 - CONSTRUCT MANHOLE NO. 1 PER RCF & WOD STD. DWS. NO. M251
 - CONSTRUCT MANHOLE NO. 4 PER RCF & WOD STD. DWS. NO. M254
 - CONSTRUCT CATCH BASIN NO. 1 PER RCF & WOD STD. DWS. NO. CB100 (W & V PER PLAN)
 - CONSTRUCT CONCRETE COLLAR PER RCF & WOD STD M803
 - INSTALL 12" HDPE STORM DRAIN PIPE (ADS N-12)
 - REMOVE APPROXIMATELY 24' OF EXISTING 42" RCP BACK TO NORTHING/EASTING OF JOIN POINT SHOWN ON PLAN
 - CONSTRUCT CSP DROP INLET STRUCTURE PER DETAILS ON SHEET 2

LINE/CURVE DATA

NO.	BEARING/DELTA	RADIUS	LENGTH	TANGENT
1	N 06° 23' 41" E	---	34.43'	---
2	S 3° 44' 06" E	302.00'	335.94'	187.74'
3	N 70° 07' 47" E	---	131.17'	---
4	N 71° 15' 22" E	45.00'	55.96'	32.25'
5	N 01° 07' 35" W	---	167.51'	---
6	N 51° 15' 20" E	---	30.06'	---
7	N 36° 04' 05" W	---	28.67'	---
8	N 71° 53' 54" W	---	21.33'	---
9	N 25° 07' 47" E	---	23.57'	---
10	N 64° 52' 13" W	---	29.78'	---

NOTE:
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THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE DESIGN HEREON. IN THE EVENT OF DISCREPANCIES ARISING AFTER CITY APPROVAL OR DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISIONS TO THE PLANS FOR APPROVED BY THE CITY.

BENCHMARK: CITY OF BEAUMONT NO. 14.A.82
 DESCRIPTION:
 1-3/8" BRASS CAP MONUMENT MARKED "CITY B.M. 14". LOCATED AT THE SLY SIDE OF 6TH STREET 235' WLY OF CENTERLINE INTERSECTION ALLEGHENY AVENUE.
 ELEV. = 2590.838 (1982)
 DATUM: NGDV29

BASIS OF BEARINGS:
 DESCRIPTION:
 THE BEARINGS SHOWN HEREON ARE BASED ON THE CENTERLINE OF FOUR SEASONS CIRCLE AS SHOWN ON TRACT NO. 33096-7 AS SHOWN ON A MAP FILED IN BOOK 440, PAGES 50 THROUGH 56, INCLUSIVE, OF MAPS IN THE OFFICE OF THE COUNTY RECORDER OF RIVERSIDE COUNTY, CALIFORNIA.
 BEARING: N 31° 38' 05" W

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS		QTY



Michael Baker INTERNATIONAL
 51401 Camino Del Rio East, Suite 500
 San Diego, CA 92108
 Phone: (619) 472-3505
 MBakerintl.com

Mauricio M. Iacelli
 R.C.E. 63249 EXP. 6-30-2018
 DATE: 9/21/17



DESIGN BY: RH
 DRAWN BY: MJ
 CHECKED BY: MMH
 SCALE:
 DATE: AUGUST 2017
 JOB NUMBER: 10103705

Reviewed By: *Richard St. John* Date: 10/9/17
 Recommended for Approval By: *Richard St. John* Date: 10/9/17
 Administrative Engineer
 Approved By: *James Oller* Date: 10/10/17
 Director of Public Works, R.C.E. 50932
 City of Beaumont, Public Works Department
 Engineering Division

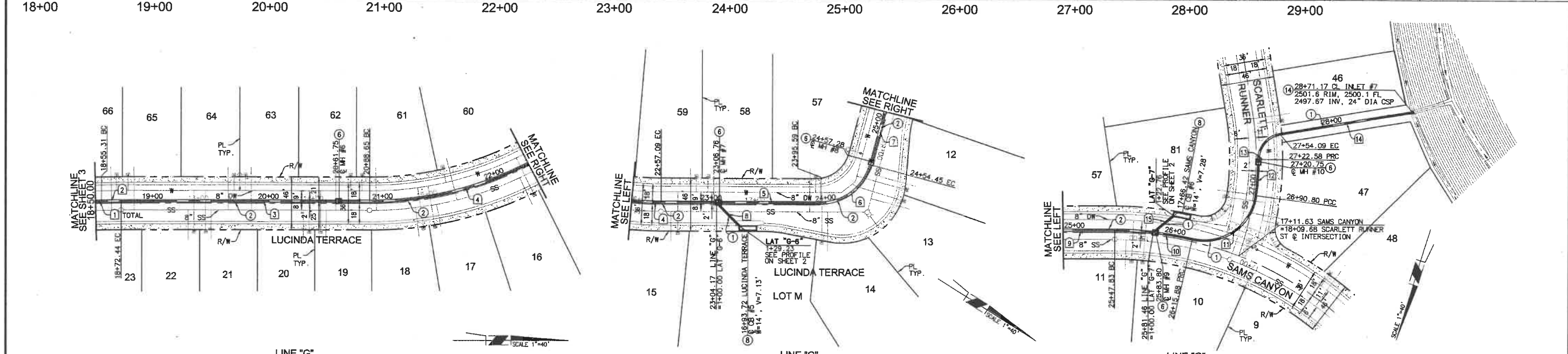
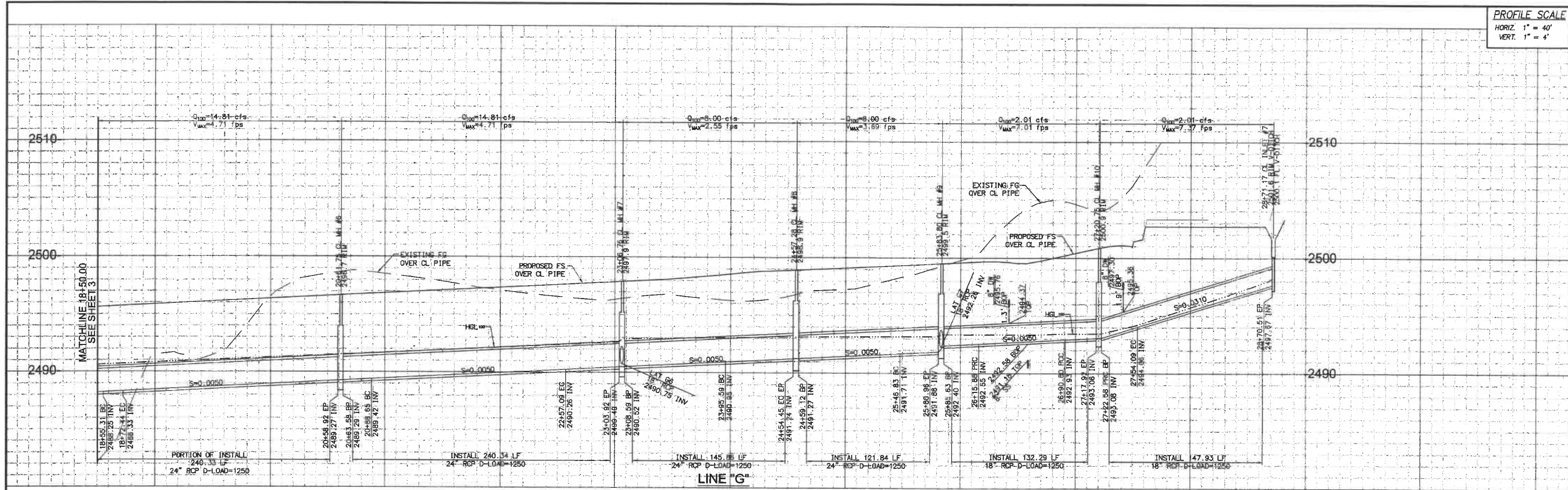
CITY OF BEAUMONT, CALIFORNIA
 STORM DRAIN PLANS FOR:
 STORM DRAIN LINE "G" 10+00.00 TO 18+50.00
 SD LAT "G-2" & "G-3"

FOR: K. HOVNIANIAN

SHEET
3
 OF 5 SHEETS
 FILE NO.:
 3136

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PROFILE SCALE
 HORIZ. 1" = 40'
 VERT. 1" = 4'



NOTE:
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BENCHMARK: CITY OF BEAUMONT NO. 14.A.82
 DESCRIPTION:
 1-3/8" BRASS CAP MONUMENT MARKED "CITY B.M. 14", LOCATED AT THE S'LY SIDE OF 6TH STREET 235' W'LY OF CENTERLINE INTERSECTION ALLEGHENY AVENUE.

ELEV. = 2590.838 (1982)
 DATUM: NAD83

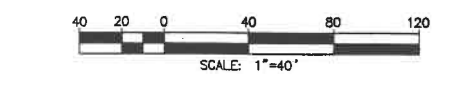
LINE/CURVE DATA

NO.	BEARING/DELTA	RADIUS	LENGTH	TANGENT
1	N 01°07'35" W	163.21'	—	—
2	N 01°13'25" W	802.00'	17.13	8.56'
3	N 00°05'50" E	—	216.22'	—
4	S 32°03'04" E	298.00'	168.43'	86.53'
5	N 32°17'14" W	—	138.50'	—
6	N 74°56'35" E	45.00'	66.71'	39.09'
7	N 72°46'11" E	—	93.38'	—
8	N 12°42'46" E	—	29.23'	—

LINE/CURVE DATA

NO.	BEARING/DELTA	RADIUS	LENGTH	TANGENT
9	N 72°46'11" E	—	163.21'	—
10	N 72°54'39" E	302.00'	93.38'	34.17'
11	N 95°23'52" E	45.00'	68.05'	49.45'
12	N 07°13'31" E	252.00'	31.78'	15.91'
13	N 80°14'28" E	22.50'	31.51'	18.96'
14	N 63°17'55" E	—	117.08'	—
15	N 33°34'15" E	—	22.76'	—

- CONSTRUCTION NOTES**
- INSTALL 18" RCP STORM DRAIN PIPE (D-LOAD PER PLAN)
 - INSTALL 24" RCP STORM DRAIN PIPE (D-LOAD PER PLAN)
 - CONSTRUCT MANHOLE NO. 1 PER RCP & WCD STD. DWS. NO. MH251
 - CONSTRUCT CATCH BASIN NO. 1 PER RCP & WCD STD. DWS. NO. CB100 (W & V PER PLAN)
 - CONSTRUCT CSP DROP INLET STRUCTURE PER DETAILS ON SHEET 2



BASIS OF BEARINGS:
 DESCRIPTION:
 THE BEARINGS SHOWN HEREON ARE BASED ON THE CENTERLINE OF FOUR SEASONS CIRCLE AS SHOWN ON MAP NO. 33096-7 AS SHOWN ON A MAP FILED IN BOOK 440, PAGES 50 THOUGH 56, INCLUSIVE, OF MAPS IN THE OFFICE OF THE COUNTY RECORDER OF RIVERSIDE COUNTY, CALIFORNIA.
 BEARING: N 31°38'05" W

BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS		CITY



Michael Baker INTERNATIONAL
 5 Hudson Center Drive, Suite 500
 Santa Ana, CA 92707
 Phone: (949) 473-3505
 MBAKERINTL.COM

Mauricio M. Pacheco
 R.C.E. 63249 EXP. 6-30-2018
 DATE: 9/21/17



DESIGN BY: RH
 DRAIN BY: MJ
 CHECKED BY: MJI
 SCALE:
 DATE: AUGUST 2017
 JOB NUMBER: 10103705

Reviewed By: *Richard St. John* Staff Engineer Date: 10/9/17
 Recommended for Approval By: *Richard St. John* Administrative Engineer Date: 10/9/17
 Approved By: *[Signature]* Director of Public Works, R.C.E. 50932 Date: 10/11/17

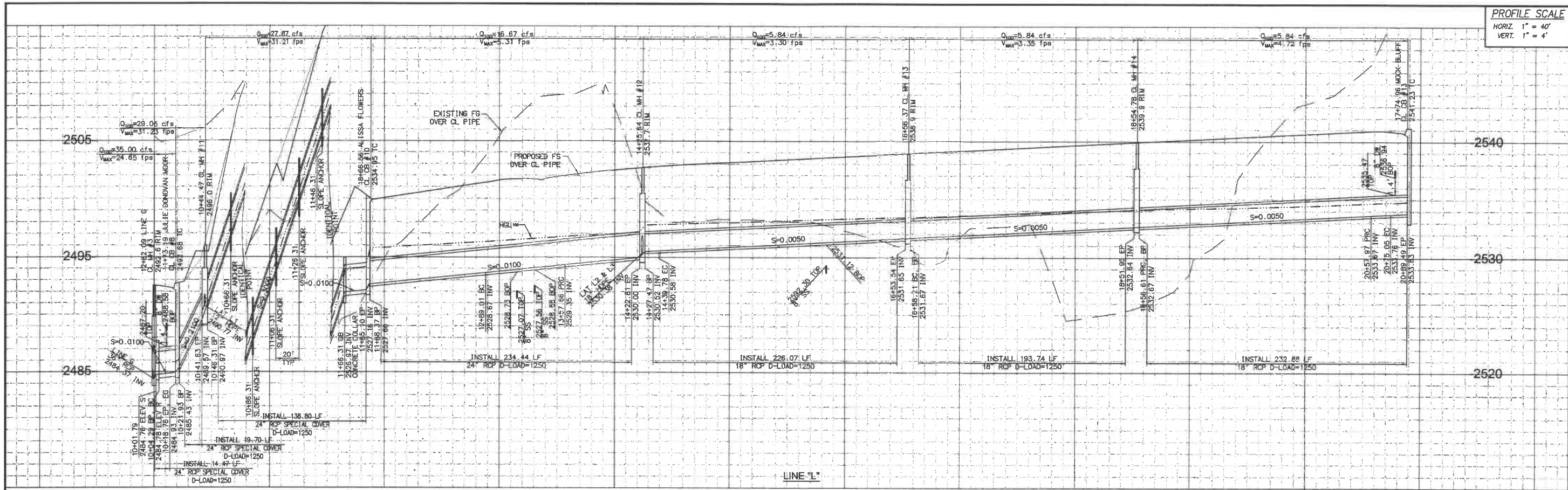
City of Beaumont, Public Works Department
 Engineering Division
 550 E. 6TH STREET
 BEAUMONT, CA 92223
 TEL: (951) 769-8220 • FAX: (951) 769-8326

CITY OF BEAUMONT, CALIFORNIA
 STORM DRAIN PLANS FOR:
 STORM DRAIN LINE "G" 18+50.00 TO 28+71.17

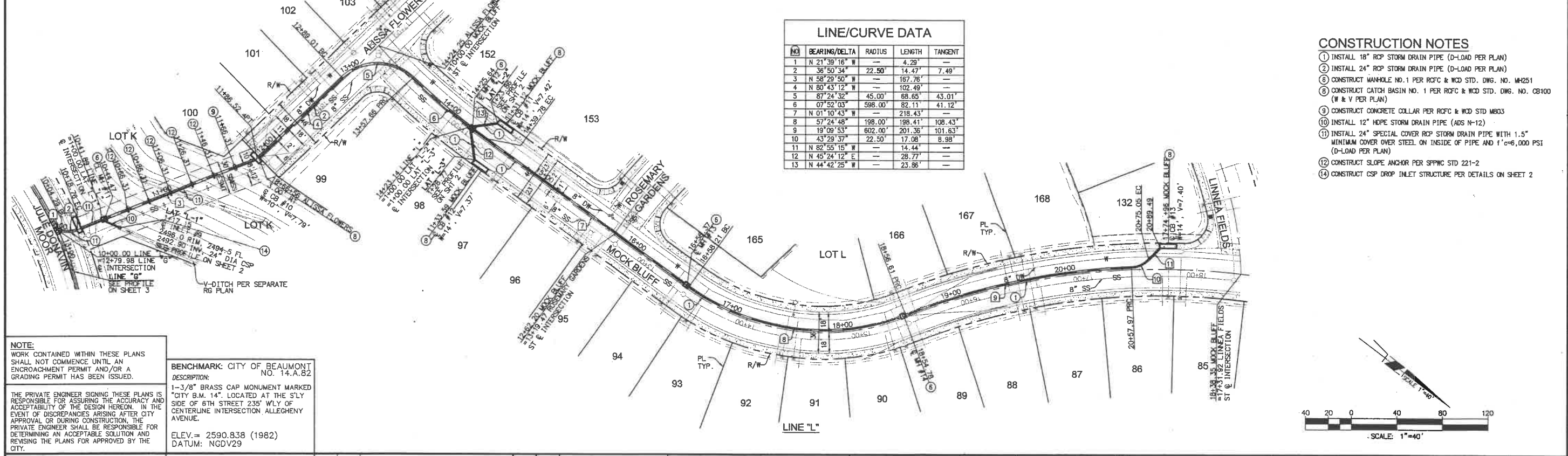
FOR: **K. HOVNANIAN**

SHEET
4
 OF 5 SHEETS
 FILE NO.:
3136

PROFILE SCALE
 HORIZ. 1" = 40'
 VERT. 1" = 4'



10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00 18+00 19+00 20+00 21+00



LINE/CURVE DATA				
NO.	BEARING/DELTA	RADIUS	LENGTH	TANGENT
1	N 21° 39' 16" W	—	4.29'	—
2	36° 50' 34"	22.50'	14.47'	7.49'
3	N 58° 29' 50" W	—	167.76'	—
4	N 80° 43' 12" W	—	102.49'	—
5	87° 24' 32"	45.00'	68.65'	43.01'
6	07° 52' 03"	598.00'	82.11'	41.12'
7	N 01° 10' 43" W	—	218.43'	—
8	57° 24' 48"	198.00'	198.41'	108.43'
9	19° 09' 53"	602.00'	201.36'	101.63'
10	43° 29' 37"	22.50'	17.08'	8.98'
11	N 82° 55' 15" W	—	14.44'	—
12	N 45° 24' 12" E	—	28.77'	—
13	N 44° 42' 25" W	—	23.86'	—

- CONSTRUCTION NOTES**
- INSTALL 18" RCP STORM DRAIN PIPE (D-LOAD PER PLAN)
 - INSTALL 24" RCP STORM DRAIN PIPE (D-LOAD PER PLAN)
 - CONSTRUCT MANHOLE NO. 1 PER R/CFC & WCD STD. DWG. NO. M4251
 - CONSTRUCT CATCH BASIN NO. 1 PER R/CFC & WCD STD. DWG. NO. C8100 (W & V PER PLAN)
 - CONSTRUCT CONCRETE COLLAR PER R/CFC & WCD STD M803
 - INSTALL 12" HOPE STORM DRAIN PIPE (ADS N-12)
 - INSTALL 24" SPECIAL COVER RCP STORM DRAIN PIPE WITH 1.5" MINIMUM COVER OVER STEEL ON INSIDE OF PIPE AND 1"=6,000 PSI (D-LOAD PER PLAN)
 - CONSTRUCT SLOPE ANCHOR PER SFPWC STD 221-2
 - CONSTRUCT CSP DROP INLET STRUCTURE PER DETAILS ON SHEET 2

NOTE:
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BY	MARK	DESCRIPTION	APPR.	DATE
ENGINEER		REVISIONS		CITY



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Mauricio M. Iacupelli
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DESIGN BY: RH
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 Approved By: *John O'Brien* Director of Public Works, R.C.E. 50932 Date: 10/11/17

City of Beaumont, Public Works Department
 Engineering Division
 550 E. 6TH STREET
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CITY OF BEAUMONT, CALIFORNIA
 STORM DRAIN PLANS FOR:
 STORM DRAIN LINE "L" 10+00.00 TO 20+89.49

FOR: **K. HOVNANIAN**

SHEET
5
 OF 5 SHEETS
 FILE NO.:
3136