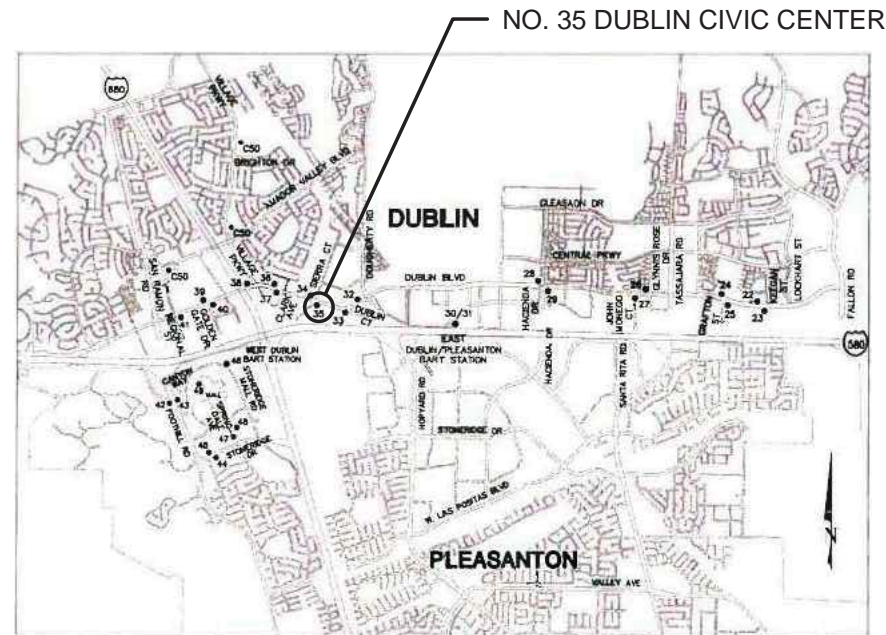


ABBREVIATIONS

CL	CENTERLINE
DIA	DIAMETER
LG	LONG
MFR	MANUFACTURER
NTS	NOT TO SCALE
PL	PLATE
PROJ	PROJECTING
REINF	REINFORCING
REQ'D	REQUIRED
SS	STAINLESS STEEL
w/	WITH
GPR	GROUND PENETRATING RADAR



KEY MAP

NTS

SHEET INDEX

- S-00 COVER SHEET
- S-01 GENERAL NOTES
- S-02 GENERAL STRUCTURAL NOTES
- S-03 OVERALL EXISTING PARTIAL PLAN
- S-04 BUS SHELTER BASE SECTIONS AND DETAILS
- S-05 LAMP POLE BASE SECTIONS AND DETAILS
- S-06 FLAG POLE BASE SECTIONS AND DETAILS
- S-07 TOLAR MANUFACTURING BUS SHELTER PLAN (FOR REFERENCE ONLY)
- S-08 TOLAR MANUFACTURING BUS SHELTER FLOOR PLAN (FOR REFERENCE ONLY)

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DRAWN: TPK	COVER SHEET	SHEET: S-00
DATE: 4/13/2015		

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GENERAL NOTES

1. ALL WORK AND WORKMANSHIP SHALL FULLY CONFORM WITH THE SPECIFICATIONS, STANDARDS, AND ORDINANCES OF THE CITIES OF DUBLIN.
2. THE OFFICE OF PUBLIC WORKS SHALL BE NOTIFIED AT LEAST 24 HOURS IN ADVANCES OF ANY WORK (DUBLIN PUBLIC WORKS: 925-833-6630)
3. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXISTENCE AND LOCATION OF ALL UTILITIES (UNDERGROUND OR OTHERWISE), AND SHALL NOTIFY ANY IMPACTED UTILITY COMPANY AT LEAST 48 HOURS IN ADVANCED OF CONSTRUCTION TO FIELD LOCATE UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE UTILITY COMPANIES. THE CONTRACTOR IS ALSO RESPONSIBLE FOR CONTACTING UNDERGROUND SERVICE ALERT AT 1-800-227-2600. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY THE LOCATIONS OF UTILITIES OR COORDINATE WITH THE UTILITY COMPANY SHALL BE BORNE BY THE CONTRACTOR.
4. THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AND LAVTA IMMEDIATELY OF ANY FIELD CONFLICTS AND/OR ANY DISCREPANCIES.
5. ANY DEVIATION OR CHANGES IN THESE PLANS WITHOUT OFFICIAL APPROVAL OF LAVTA SHALL ABSOLVE THE ENGINEER OR LAVTA OF ANY AND ALL RESPONSIBILITY OF THE CHANGE.
6. THE CONTRACTOR SHALL PROVIDE ADEQUATE TRAFFIC CONTROLS (IN ACCORDANCE WITH THE CURRENT EDITION OF THE MUTCD AND ANY ADDITIONAL CITY REQUIREMENT) AND SHALL SUBMIT TO THE CITY A TRAFFIC CONTROL PLAN 5 WORKING DAYS PRIOR TO START OF CONSTRUCTION. ALL EXISTING SIGNS AND POSTS SHALL REMAIN UNLESS NOTED OTHERWISE.
7. ANY DAMAGES TO EXISTING IMPROVEMENTS SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE ENGINEER, LAVTA, OR THE CITY OF DUBLIN AT THE CONTRACTOR'S SOLE EXPENSE.
8. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING JOB SITE CONDITIONS, WORK, AND MATERIALS 24-HOURS A DAY FOR THE DURATION OF THE PROJECT INCLUDING SAFETY AND SECURITY. THIS INCLUDES MAINTAINING A CLEAN AND TIDY JOB SITE.
9. EXISTING UTILITIES SHALL BE MAINTAINED IN SERVICE AND IN PLACE BY THE CONTRACTOR DURING THE DURATION OF THE PROJECT.
10. THE CONTRACTOR SHALL DISPOSE OF EXCESS MATERIAL OFF-SITE IN CONFORMANCE WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS.
11. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, INCLUDING OWNER FURNISHED MATERIAL DIMENSIONS PRIOR TO ORDERING MATERIAL AND BEFORE STARTING WORK.
12. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE OWNER/SUPPLIER FOR ALL WORK, INCLUDING THE DELIVERY, HANDLING, AND STORAGE OF OWNER FURNISHED MATERIALS.

13. THESE DRAWINGS AND SPECIFICATIONS DESCRIBE THE GENERAL QUALITY AND CHARACTER OF THE MATERIALS, SHAPE, AND CONFIGURATION OF IMPROVEMENTS AND THE DESIGN INTENT OF THE COMPLETED, INSTALLED WORK. MISCELLANEOUS ITEMS OF WORK, MATERIAL, EQUIPMENT, ETC. INCIDENTAL TO THE WORK AND/OR NECESSARY TO COMPLETE THE WORK SHALL BE PROVIDED BY THE CONTRACTOR WHETHER OR NOT MENTIONED IN SPECIFICATIONS AND/OR SHOWN ON THE PLANS. THE CONTRACTOR SHALL PROVIDE ALL TOOLS, TRANSPORTATION, UTILITIES, TEMPORARY FACILITIES, AND OTHER SERVICES, SUPPLIES, OR WORK AS NECESSARY FOR PROPER EXECUTION OF THE WORK AT NO EXTRA COSTS.

14. THE CONTRACTOR SHALL MAINTAIN "AS-BUILT" RECORDS AT ALL TIMES, SHOWING PRECISE LOCATION OF ALL WORK, INCLUDING DISCOVERED IMPROVEMENTS.
15. UNLESS NOTED OTHERWISE, THE NOTES AND REQUIREMENTS FROM THE ORIGINAL PROJECT PLANS AND SPECIFICATIONS (PREPARED BY KIMLEY-HORN AND ASSOCIATES DATED 9/29/2009) SHALL APPLY.
16. THE CONTRACTOR SHALL COMPLY WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS AND IS RESPONSIBLE FOR COMPLIANCE OF ALL SUB-CONTRACTORS AND ANY PERSONNEL WHO ENTER THE SITE.
17. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING NECESSARY PERMITS (INCLUDING PAYING ANY FEES) AND FOR MEETING AND COMPLYING WITH ALL PERMIT CONDITIONS AND REQUIREMENTS. ANY RE-WORK, DELAYS OR CHANGES THAT OCCUR AS A RESULT OF NOT MEETING OR COMPLYING WITH THE PERMIT CONDITIONS OR REQUIREMENTS ARE THE CONTRACTOR'S RESPONSIBILITY AT THEIR EXPENSE.
18. THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER DELIVERY, STORAGE, PROTECTION AND HANDLING OF MATERIALS AND EQUIPMENT, INCLUDING MEETING THE MANUFACTURER'S OR SUPPLIER'S RECOMMENDATIONS AND SPECIFICATIONS. LOST, DAMAGED OR MISHANDLED EQUIPMENT OR MATERIALS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
19. REMOVAL OF ANY SIDEWALK CONCRETE SHALL BE REMOVED TO AN EXISTING JOINT. CONSTRUCT NEW SIDEWALK FLUSH WITH THE EXISTING SIDEWALK AND PER CITY OF DUBLIN STANDARD CD-303. FINISH CONCRETE TO MATCH EXISTING FINISH AND INSTALL/MAINTAIN JOINTS TO MATCH EXISTING JOINTS.
20. THE CONTRACTOR SHALL PROVIDE THE OWNER 48 HOURS NOTICE OF SUBSTANTIAL COMPLETION FOR A FINAL INSPECTION, AND SHALL ADDRESS ALL PUNCHLIST ITEMS TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST. THE CONTRACTOR SHALL PROVIDE A 12-MONTH WARRANTY ON ALL CONTRACTOR PROVIDED MATERIALS AND WORKMANSHIP STARTING FROM THE SATISFACTORY COMPLETION OF ALL PUNCHLIST ITEMS.

SUBMITTALS

1. THE CONTRACTOR IS RESPONSIBLE FOR PREPARING AND SUBMITTING ALL REQUIRED SUBMITTALS TO THE CONSTRUCTION ENGINEER FOR THEIR REVIEW. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ALLOWING SUFFICIENT REVIEW TIME AND TIME TO ADDRESS ANY COMMENTS.
2. WHENEVER POSSIBLE, SUBMIT INFORMATION ELECTRONICALLY.
3. UNIQUELY IDENTIFY EACH SUBMITTAL BY INCLUDING AN IDENTIFICATION SUBMITTAL NUMBER.
4. SUBMITTALS SHALL BE COMPLETE AND THE CONTRACTOR SHALL REVIEW AND COORDINATE EACH SUBMITTAL AND INCLUDE THE FOLLOWING CERTIFICATION STATEMENT WITH EACH SUBMITTAL:
 - a. "BY THIS SUBMITTAL, I HEREBY REPRESENT THAT I HAVE DETERMINED AND VERIFIED FIELD MEASUREMENTS, FIELD CONSTRUCTION CRITERIA, MATERIALS, DIMENSIONS, CATALOG NUMBERS AND SIMILAR DATA AND I HAVE CHECKED AND COORDINATED EACH ITEM WITH THE CONTRACT DRAWINGS, SPECIFICATIONS, OTHER APPLICABLE APPROVED SHOP DRAWINGS, AND CONTRACT REQUIREMENTS."
5. THE FOLLOWING IS AN INITIAL LIST OF ANTICIPATED SUBMITTALS:
 - A. ANCHOR BOLTS/THREADED RODS
 - B. ADHESIVE PRODUCT
 - C. LIGHT POLE BASE PLATE SHOP DRAWING
 - D. CONCRETE MIX
 - E. REINFORCING PRODUCT
 - F. EXPANSION JOINT MATERIAL
 - G. NON-SHRINK GROUT PRODUCT
 - H. RECORD DRAWINGS ("AS BUILT")
 - I. ANCHOR PULL OUT TEST RESULTS



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DRAWN: SSV	GENERAL NOTES	SHEET: S-01
DATE: 4/13/2015		

STRUCTURAL DESIGN PARAMETERS:

1. ALL CONSTRUCTION SHALL COMPLY WITH THE BUILDING CODE AND OTHER APPLICABLE CODES AND STANDARDS.
2. BUILDING CODE:
 - A. 2013 CALIFORNIA BUILDING CODE
3. DESIGN CRITERIA:
 - A. RISK CATEGORY =1
 - B. WIND LOAD PARAMETERS
 1. EXPOSURE CATEGORY = C
 2. ULTIMATE DESIGN WIND SPEED = 100 MPH
 - C. SEISMIC LOAD PARAMETERS
 1. SITE CLASS D
 2. SEISMIC DESIGN CATEGORY = D
 3. S(DS) = 1.477g
 4. S(D1) = 0.846g
 5. I = 1.0

CONCRETE:

1. CONCRETE QUALITY: CONFORM TO THE LATEST EDITIONS OF ACI 301 AND ACI 318.
2. CONCRETE SHALL BE NORMAL WEIGHT (144 PCF) UNLESS NOTED OTHERWISE. CEMENT SHALL BE TYPE II AND SHALL CONFORM TO ASTM C150. 28 DAY COMPRESSIVE STRENGTH: ALL CONCRETE ----- 4000 PSI
3. NON-SHRINK GROUT:
 - A. USE PLASTIC OR STIFF (DRY PACK), NON-METALLIC NON-SHRINK GROUT WITH MINIMUM 7,000 PSI COMPRESSIVE STRENGTH AT 7-DAYS. CONFORM TO THE REQUIREMENTS OF CRD-C 621 CORPS OF ENGINEERS FOR NON-SHRINK GROUT.
 - B. SATURATE THE AREA WITH POTABLE WATER FOR 24 HOURS IMMEDIATELY PRIOR TO APPLICATION OF THE GROUT PER THE MANUFACTURER'S RECOMMENDATIONS. WET CURE AND APPLY CURING COMPOUNDS TO EXPOSED GROUT SURFACES.
 - C. USE BASF CONSTRUCTION GROUT, EUCO DRY PACK GROUT, OR EQUAL.

REINFORCING STEEL:

1. REINFORCING STEEL SHALL CONFORM TO THE FOLLOWING STANDARDS:
 - A. ALL REINFORCING ----- ASTM A 615, GRADE 60

STRUCTURAL STEEL:

1. ALL STEEL WORK SHALL CONFORM WITH THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
2. MATERIALS SHALL CONFORM WITH THE FOLLOWING STANDARDS:
 - PLATES AND EMBED ITEMS ----- ASTM A36, FY = 36 KSI
 - WELDING RODS ----- E-70 SERIES LOW HYDROGEN
3. WELDING SHALL CONFORM TO AWS D1.1.

STAINLESS STEEL:

1. STAINLESS STEEL MEMBERS AND MEMBER COMPONENTS SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:
 - A. NUTS ----- ASTM F 594, TYPE 316
 - B. WASHERS ----- ASTM A 240, TYPE 316
 - C. THREADED RODS ----- ASTM F 593, TYPE 316

POST-INSTALLED ANCHORS:

1. ADHESIVES FOR ANCHORS AND DOWELS IN CONCRETE:
 - A. HIT-HY 200 BY HILTI (ICC-ES REPORT #ESR-3187), OR APPROVED EQUAL.
2. ANCHORS SHALL BE INSTALLED BY A QUALIFIED PERSONNEL TRAINED TO INSTALL ADHESIVE ANCHORS IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII). DRILL AND CLEAN HOLES PER MPII.
3. INSTALL ANCHORS ONLY AFTER CONCRETE HAS REACHED ITS MINIMUM DESIGN STRENGTH.
4. INSTALL ANCHORS IN CONCRETE IN THE DRY CONDITION.
5. THE CONTRACTOR SHALL INCLUDE IN THEIR BID TESTING BY AN INDEPENDENT LABORATORY OF A MINIMUM OF 5 ANCHOR BOLTS CHOSEN AT RANDOM BY THE TESTING LABORATORY AND CONFIRMED BY THE STRUCTURAL ENGINEER. UNFACTORED TENSION TEST LOAD IS TO BE 2000# FOR BUS SHELTER ANCHORS; 2000# FOR LIGHT POLE ANCHORS; 500# FOR FLAG SIGN ANCHORS. SUSTAIN THE TENSION TEST LOAD FOR 5 MINUTES WITH NO DISCERNABLE MOVEMENT FROM THE ANCHOR. IF ANY ANCHOR FAILS, THE TESTING SHALL BE INCREASED TO 100% OF ALL ANCHORS AT NO ADDITIONAL COST.

STRUCTURAL INSPECTION:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT ALL STRUCTURAL WORK FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS. ANY STRUCTURAL INSPECTION PROVIDED BY OTHERS DOES NOT RELIEVE HIM OF HIS RESPONSIBILITY. ANY STRUCTURAL DEVIATIONS FROM THE CONTRACT DOCUMENTS THAT ARE FOUND AT A LATER DATE AND ARE DECLARED TO BE SIGNIFICANT BY THE STRUCTURAL ENGINEER SHALL BE CORRECTED BY THE CONTRACTOR WITH ALL DISPATCH. THE STRUCTURAL INSPECTOR IS NOT AUTHORIZED TO DIRECT OR APPROVE ANY CHANGES FROM THE CONTRACT DOCUMENTS. IF THE CONTRACTOR WISHES TO QUESTION THE STRUCTURAL INSPECTOR'S INTERPRETATION OF THE CONTRACT DOCUMENTS, HE MAY DO SO DIRECTLY WITH THE ENGINEER.
2. THE STRUCTURAL INSPECTOR IS NOT AUTHORIZED TO STOP OR DELAY THE WORK. IF THE CONTRACTOR ELECTS TO CONTINUE WITH A CERTAIN WORK AFTER BEING NOTIFIED BY THE STRUCTURAL INSPECTOR THAT SUCH WORK IS UNACCEPTABLE, HE DOES SO AT HIS OWN RESPONSIBILITY AND RISKS CORRECTING THE WORK AT A LESS OPPORTUNE TIME.
3. THE STRUCTURAL INSPECTOR IS NOT INSPECTING FOR ANY OSHA COMPLIANCE OR FOR ANY TEMPORARY CONSTRUCTION, SUCH AS BRACING.
4. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE FACILITIES FOR THE STRUCTURAL INSPECTOR TO INSPECT THE WORK SAFELY AND EFFICIENTLY.
5. 24 HOUR NOTICE IS REQUIRED FOR INSPECTION.
6. WORK MUST BE COMPLETED AT TIME OF INSPECTION.
7. CONTRACTOR SHALL BEAR THE EXPENSE OF ANY ADDITIONAL INSPECTION THAT MAY OCCUR BECAUSE OF INCOMPLETE OR INCORRECT WORK.
8. SPECIAL INSPECTIONS ARE REQUIRED FOR THE FOLLOWING ITEMS:
 - A. INSTALLATION OF ADHESIVE ANCHOR BOLTS
 - B. REINFORCING STEEL
 - C. PLACEMENT OF CONCRETE.
 - D. FIELD WELDING

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DESIGNED:
TFW

DRAWN:
AJE

DATE:
4/13/2015

LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY

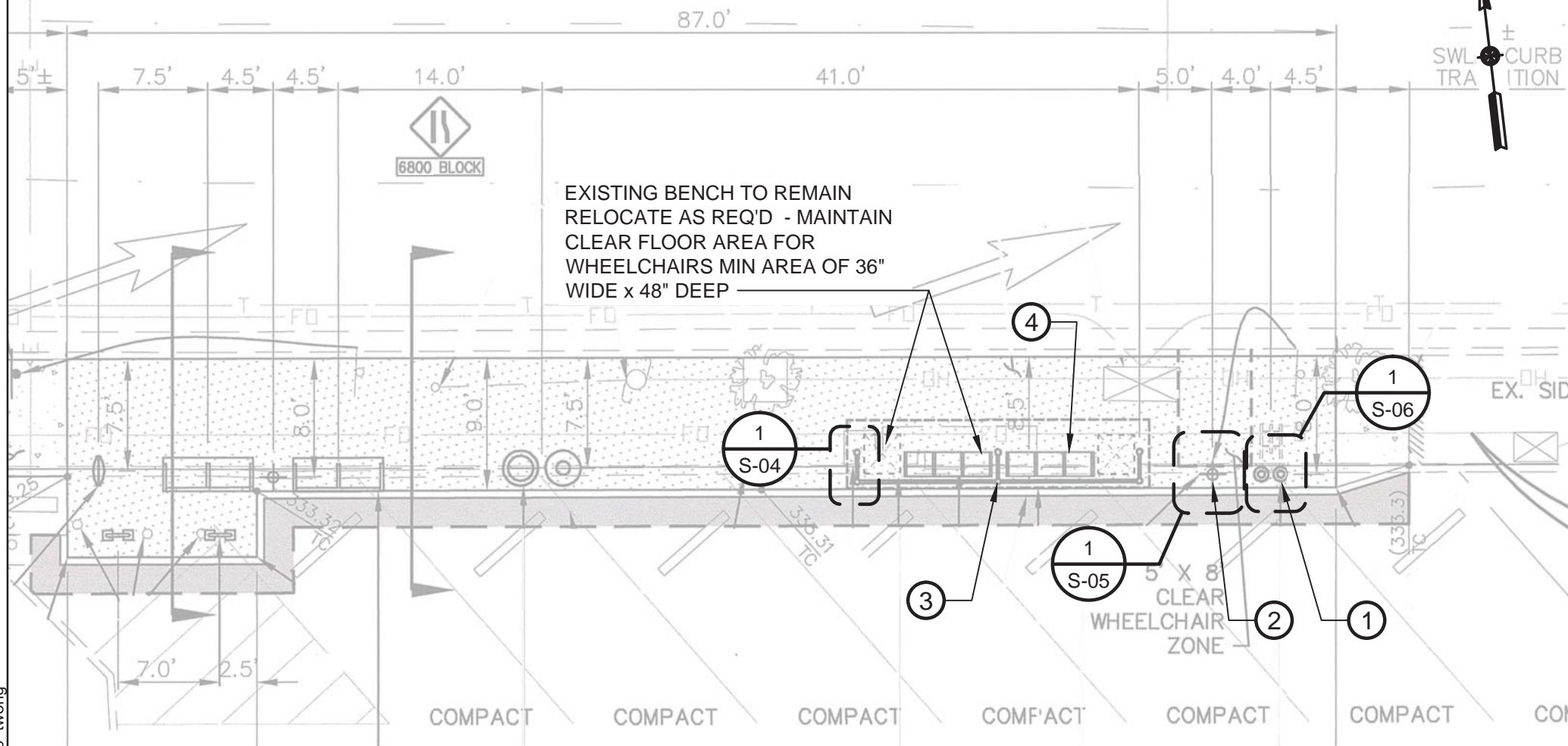
GENERAL STRUCTURAL NOTES

JOB NO:
55156

SHEET:
S-02



DUBLIN BOULEVARD



CONSTRUCTION NOTES

- ① INSTALL NEW FLAG SIGN, PLUMB, COMPLETE AND MATCHING LOCATION, ORIENTATION AND FUNCTION OF THE ORIGINAL. SEE DETAILS ON SHEET S-06 FOR FOUNDATION ANCHORAGE.
- ② INSTALL NEW LIGHT POLE AND LUMINAIRE, PLUMB, COMPLETE, AND MATCHING LOCATION, ORIENTATION AND FUNCTION (INCLUDING POWER) OF THE ORIGINAL. SEE DETAILS ON SHEET S-05 FOR FOUNDATION ANCHORAGE.
- ③ INSTALL NEW SHELTER, PLUMB, COMPLETE, AND MATCHING LOCATION, ORIENTATION AND FUNCTION (INCLUDING POWER) OF THE ORIGINAL. SEE DETAILS ON SHEET S-04 FOR FOUNDATION ANCHORAGE.
- ④ INSTALL NEW PEDESTRIAN BENCH, COMPLETE, TO MATCH LOCATION AND ORIENTATION AND FUNCTION OF THE ORIGINAL. INSTALL LEVEL AND PLUMB. ANCHORAGE TO THE EXISTING SIDEWALK WITH 1/2" x 3" STAINLESS STEEL SLEEVE ANCHOR (MINIMUM 2-1/2" EMBEDMENT INTO CONCRETE). DRILL, PREPARE AND SET IN ACCORDANCE WITH THE ANCHOR MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS. IF MOUNTING SURFACE IS NOT LEVEL, USE STAINLESS STEEL SHIMS OR WASHERS TO LEVEL BENCH BEFORE TIGHTENING ANCHORS. SEAT HEIGHT ALONG LENGTH OF BENCH SHALL NOT EXCEED 1' - 7".

STOP 35. DUBLIN CIVIC CENTER PARTIAL PLAN

SCALE: N.T.S.



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4/13/2015

LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY

OVERALL EXISTING PARTIAL PLAN

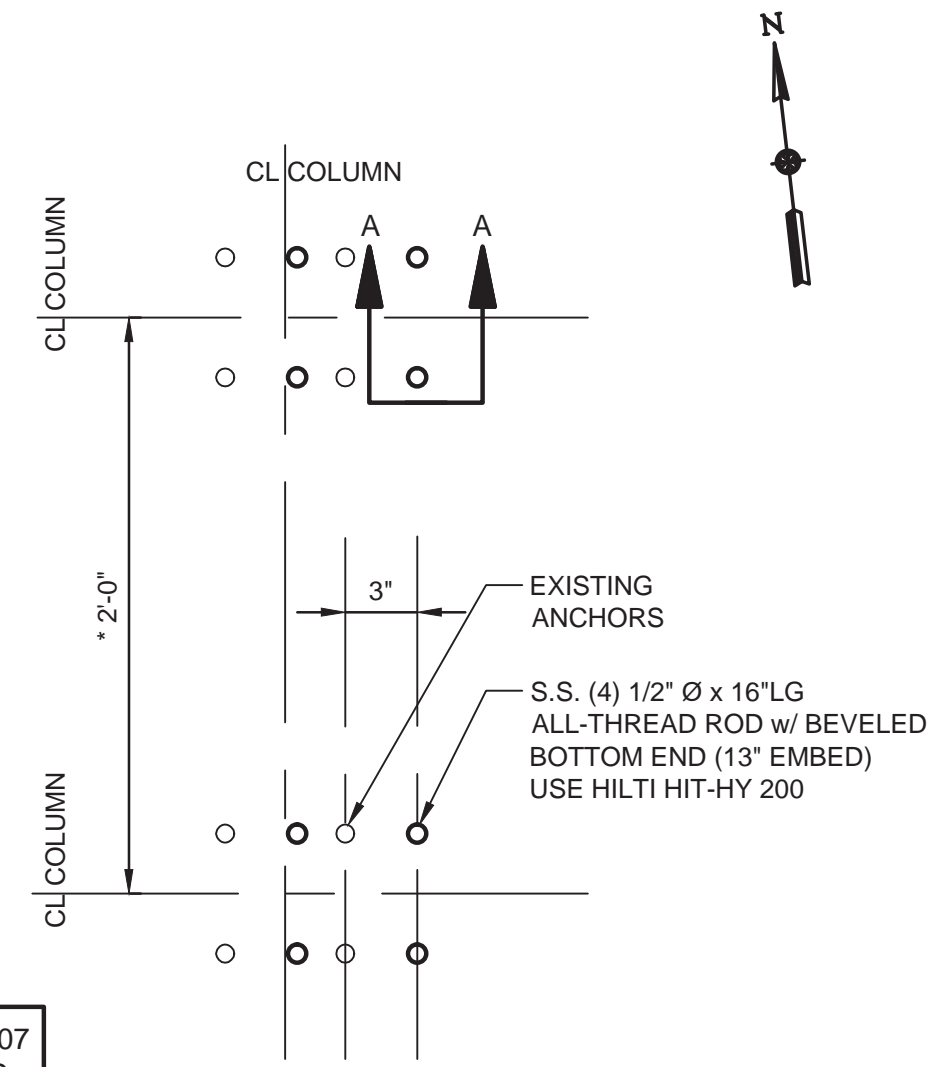
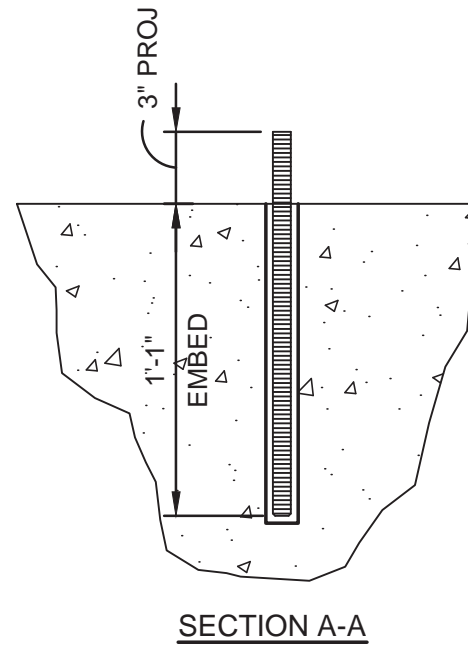
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SHEET:
S-03



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NOTE: REFERENCE SHEET S-07
TOLAR MANUFACTURING BUS
SHELTER PLAN FOR
ADDITIONAL INFORMATION

BUS SHELTER BASE (PLAN VIEW)

1
S-03

DETAIL
SCALE: 1"=1'-0"



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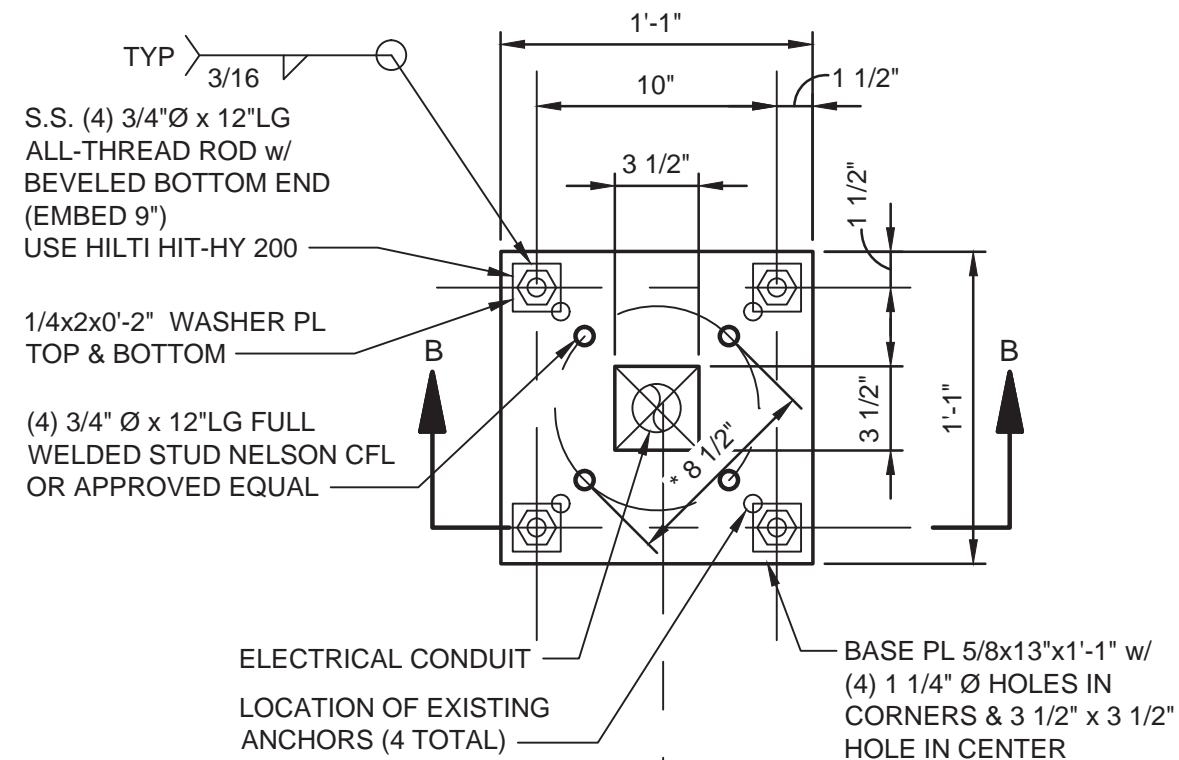


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DATE: 4/13/2015		

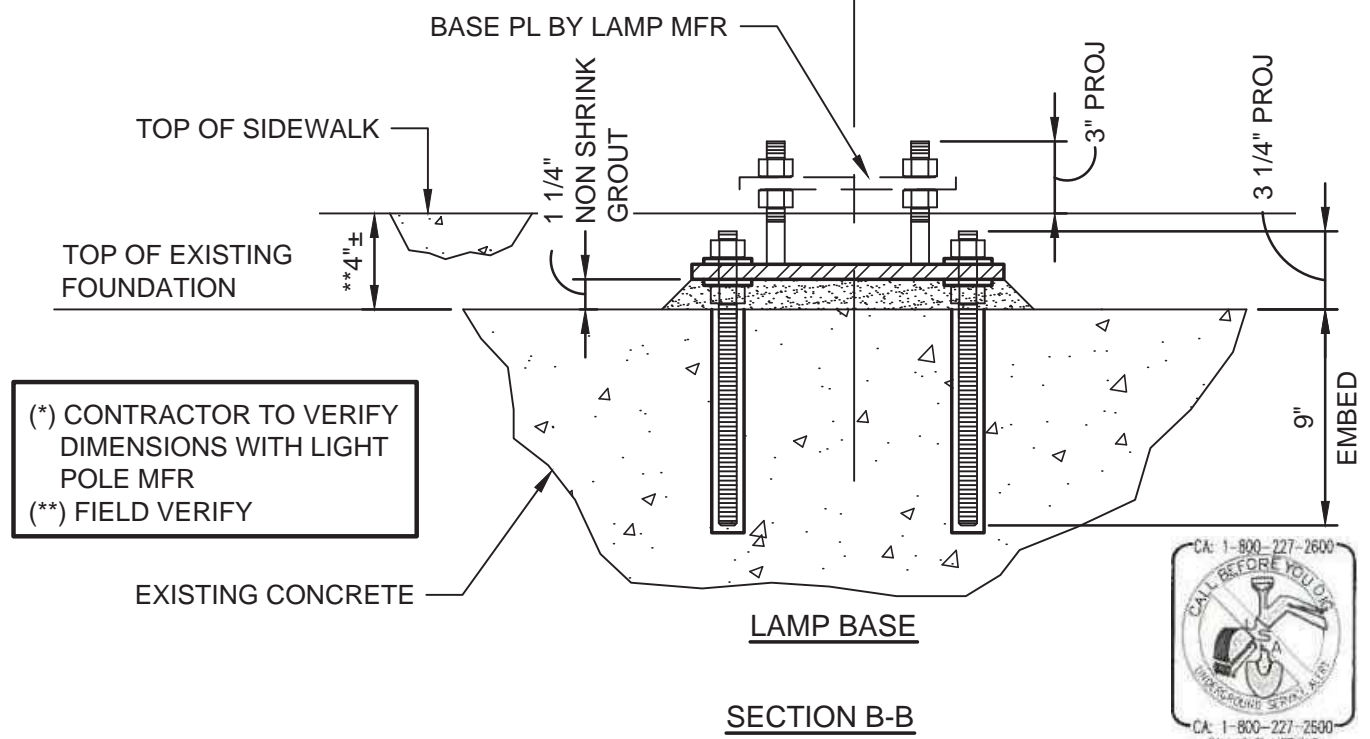
LAMP BASE INSTALLATION

SEQUENCE OF CONSTRUCTION:

1. VERIFY EXISTING ELECTRICAL WIRES ARE NOT LIVE
2. REMOVE SURROUNDING SIDEWALK TO TOP OF EXISTING FOUNDATION
3. LOCATE EXISTING ELECTRICAL CONDUIT. EXTEND CONDUIT AND WIRES AS REQUIRED FOR LIGHT POLE INSTALLATION
4. GPR EXISTING CONCRETE FOUNDATION TO LOCATE EXISTING TOP REINFORCING
5. USE EMBED BASE PLATE AS TEMPLATE TO LOCATE DRILL HOLES. CENTER EMBED BASE PLATE OVER CONDUIT AND ORIENTATE PLATE TO MATCH CORRECT ORIENTATION OF LIGHT POLE. MARK LOCATION FOR DRILL-IN ANCHORS. REMOVE CENTER EMBED EMBED BASE PLATE. AVOID EXISTING REINFORCING & BURIED CONDUIT. DRILL AND ANCHOR PER HILTI'S RECOMMENDATIONS.
6. SET EMBED BASE PLATE LEVEL. USE NON SHRINK GROUT UNDER PLATE.
7. REPOUR SIDEWALK TO MATCH SURROUNDING PATTERN.



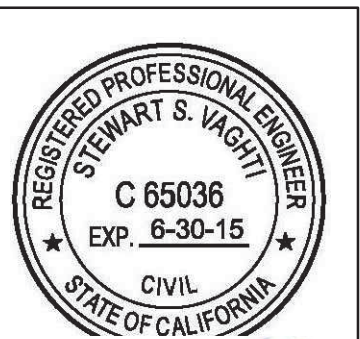
1
S-03
DETAIL
SCALE: 1"=1'-0"



(*) CONTRACTOR TO VERIFY DIMENSIONS WITH LIGHT POLE MFR
 (**) FIELD VERIFY



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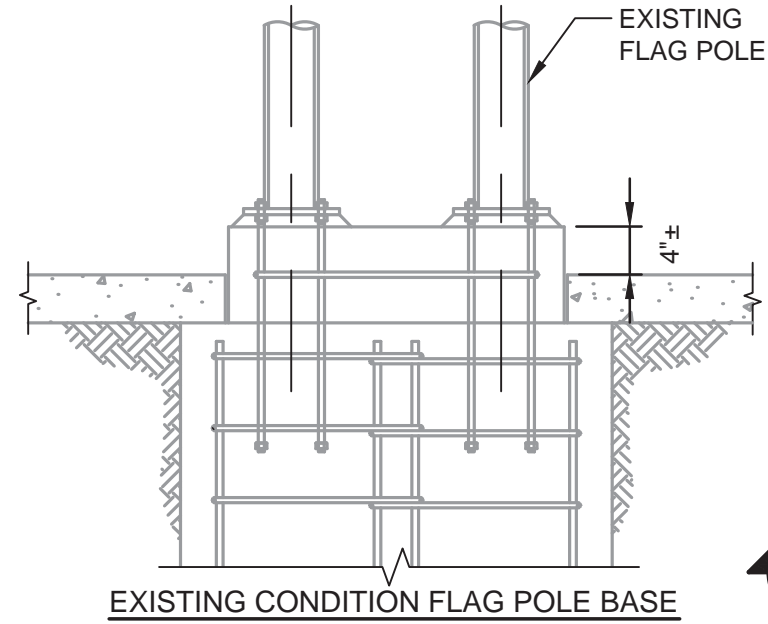


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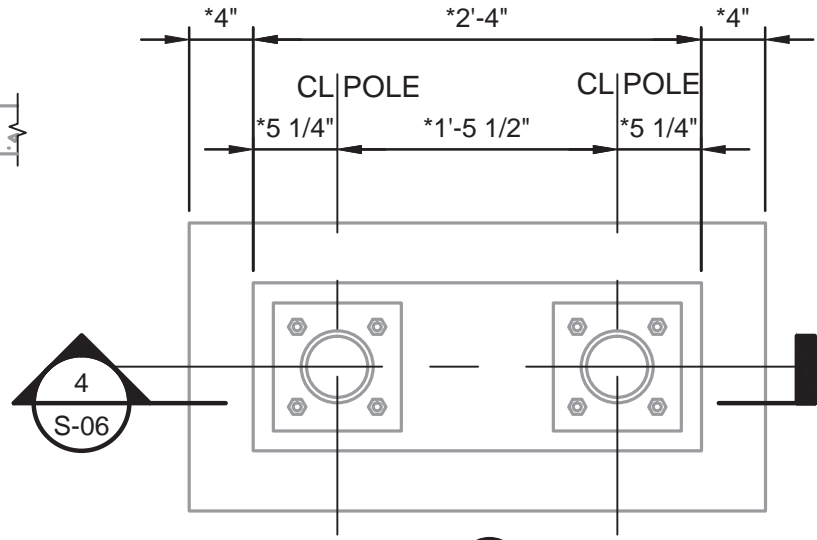
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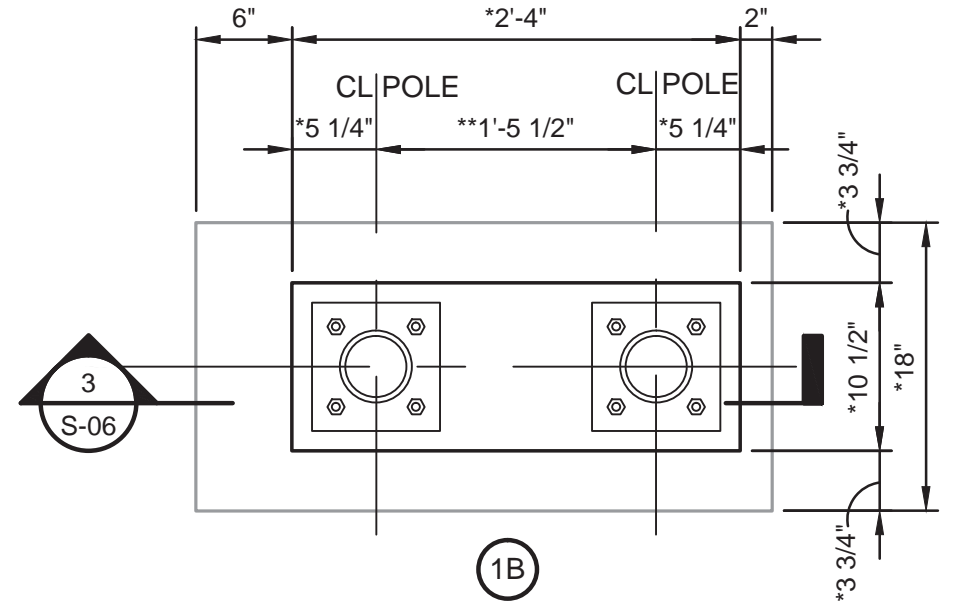
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DRAWN: AJE	LAMP POLE BASE SECTIONS AND DETAILS	SHEET: S-05
DATE: 4/13/2015		



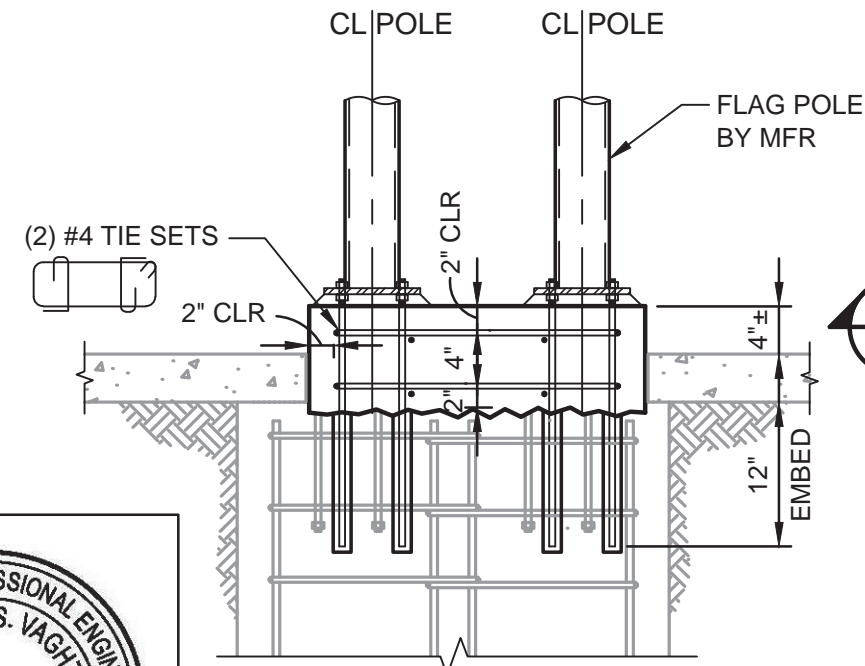
4 SECTION
S-06 SCALE: 3/4"=1'-0"



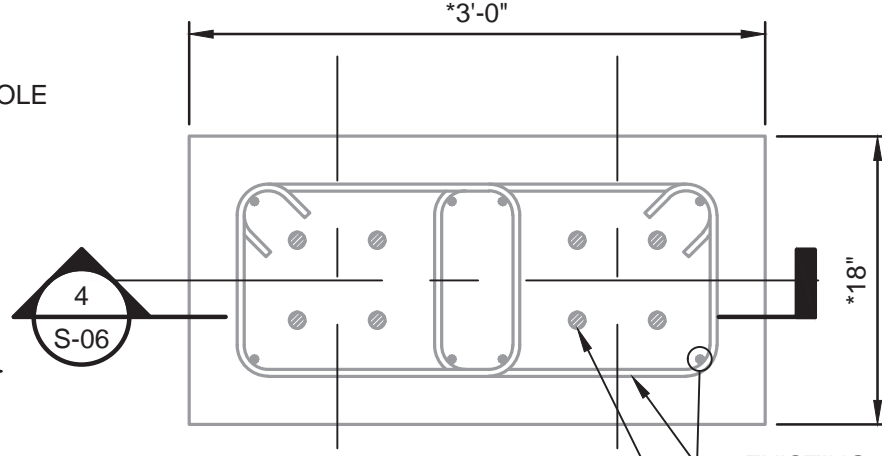
2B



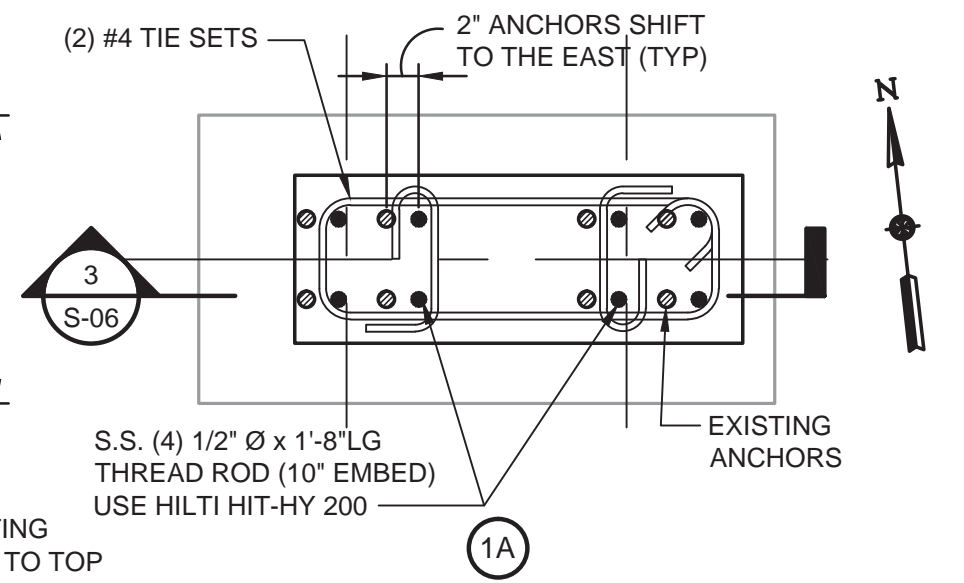
1B



3 SECTION
S-06 SCALE: 3/4"=1'-0"



2A



1A

EXISTING CONDITION FLAG POLE BASE

REPOSITION FLAG POLE BASE

2 DETAIL
S-06 SCALE: 1"=1'-0"

1 DETAIL
S-03 SCALE: 1"=1'-0"



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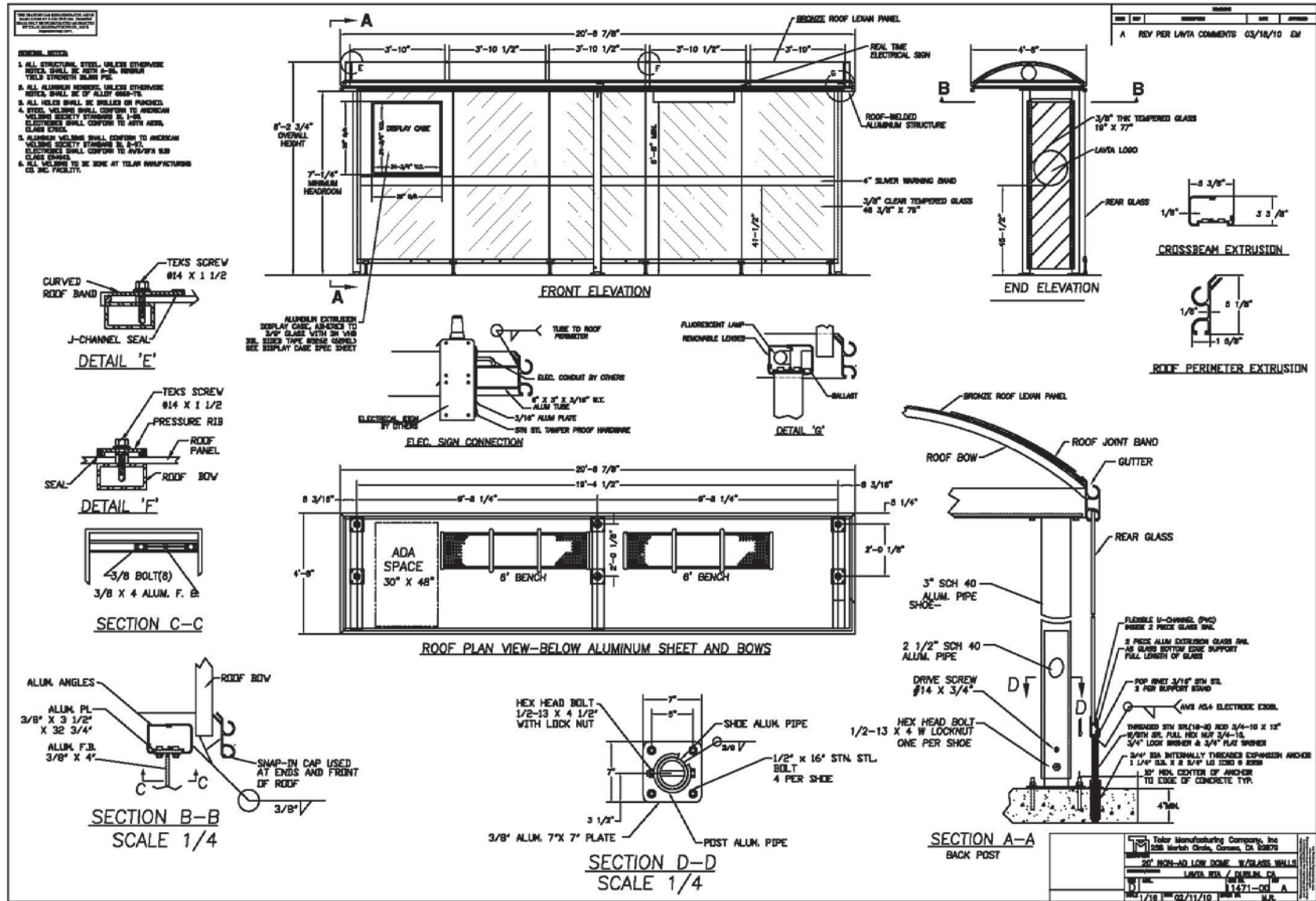


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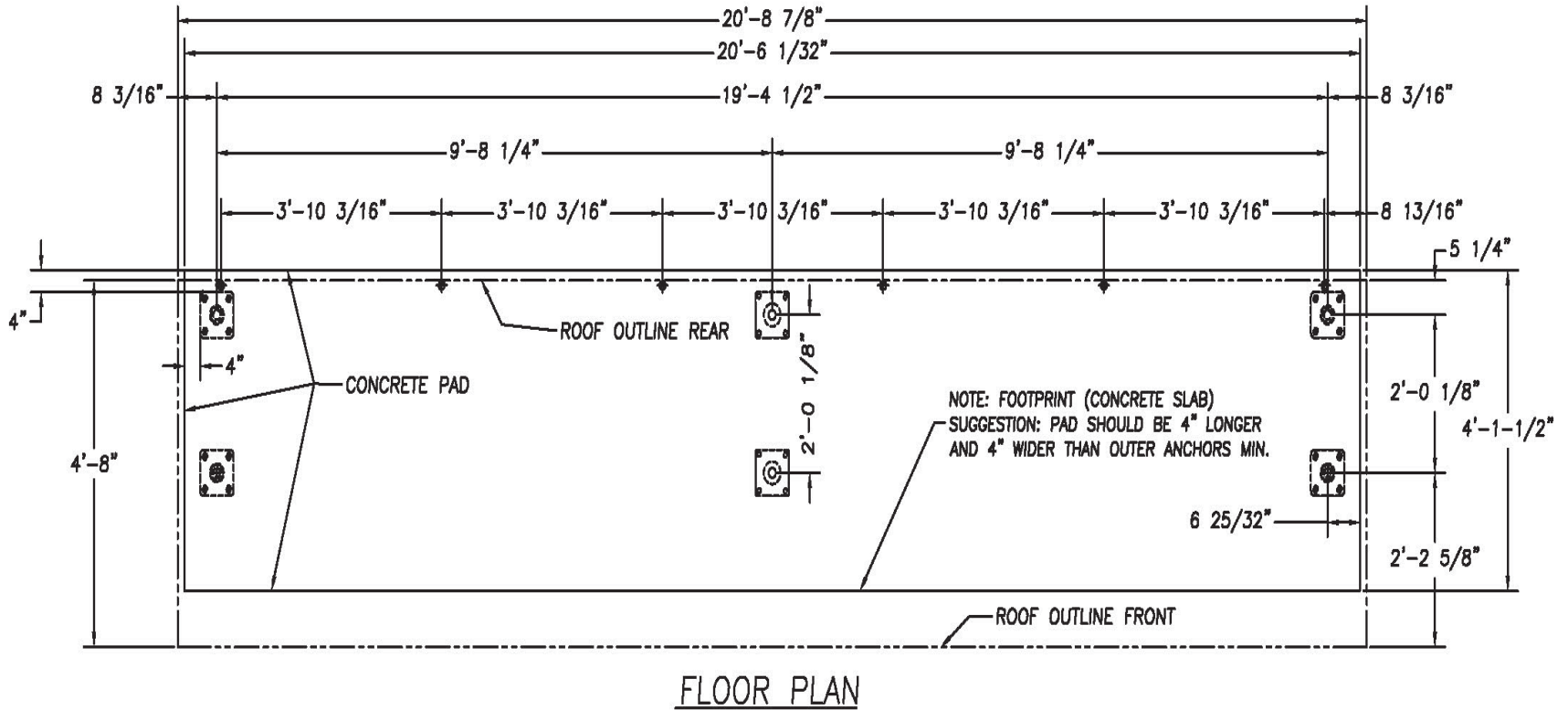
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DRAWN: AJE	FLAG POLE BASE SECTIONS AND DETAILS	SHEET: S-06
DATE: 4/13/2015		

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TOLAR MANUFACTURING BUS SHELTER PLAN (FOR REFERENCE ONLY)

SHEET:
S-07



<p>TOLAR MANUFACTURING BUS SHELTER FLOOR PLAN (FOR REFERENCE ONLY)</p>	<p>SHEET: S-08</p>
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