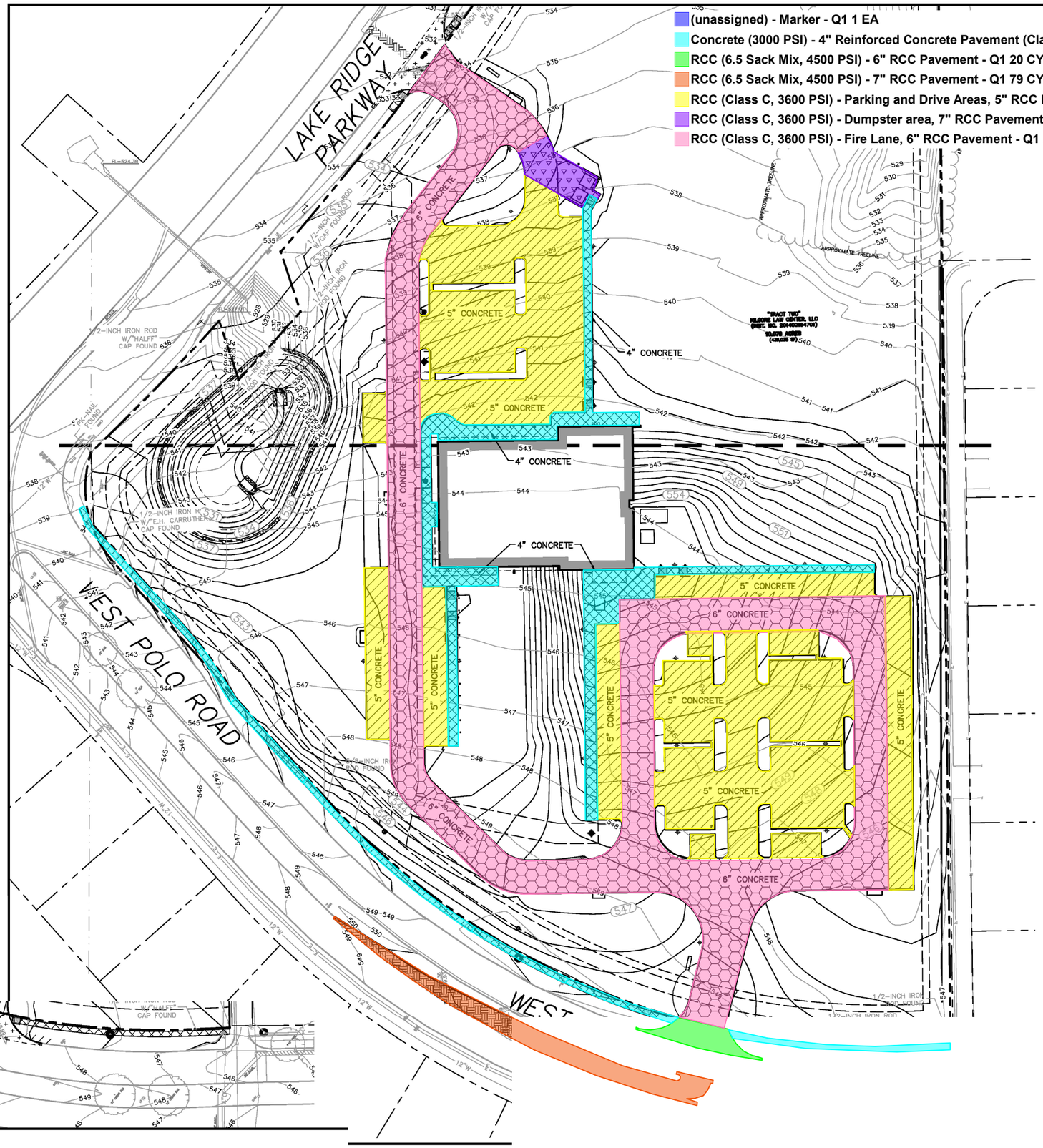
(unassigned) - Marker - Q1 1 EA
Concrete (3000 PSI) - 4" Reinforced Concrete Pavement (Class A) - Q1 154 CY
RCC (6.5 Sack Mix, 4500 PSI) - 6" RCC Pavement - Q1 20 CY
RCC (6.5 Sack Mix, 4500 PSI) - 7" RCC Pavement - Q1 79 CY
RCC (Class C, 3600 PSI) - Parking and Drive Areas, 5" RCC Pavement - Q1 764 CY
RCC (Class C, 3600 PSI) - Dumpster area, 7" RCC Pavement - Q1 32 CY
RCC (Class C, 3600 PSI) - Fire Lane, 6" RCC Pavement - Q1 780 CY ; Q2 42,105 SF




## BENCH MARK LIST

SET ON THE SOUTHEAST SIDE OF A CONCRETE SIDEWALK AT THE NORTHWEST SIDE OF LAKE RIDGE PARKWAY, ±50' SOUTHWEST OF THE CENTERLINE OF LAKE RIDGE PARKWAY, ±600' NORTHWEST OF THE INTERSECTION OF LAKE RIDGE PARKWAY AND WEST POLO ROAD AND ±53' NORTHEAST OF A CONCRETE HEADWALL.

ELEV=527.97

SET ON THE SOUTHEAST SIDE OF A CONCRETE MEDIAN LOCATED IN THE CENTER OF WEST POLO ROAD, ±25' NORTHEAST OF A LIGHT STANDARD AND ±90 FEET SOUTHEAST OF THE INTERSECTION OF WEST POLO ROAD AND LAKE RIDGE PARKWAY.

ELEV=541.50

BM# 4 " ☒ " CUT SET ON THE SOUTH SIDE OF A CONCRETE SIDEWALK LOCATED ON THE SOUTH SIDE OF WEST POLO ROAD, ±40' SOUTH OF THE CENTERLINE OF WEST POLO ROAD AND ±165' WEST OF THE INTERSECTION OF WEST POLO ROAD AN OPELOUSAS COURT.

ELEV=546.27

GRAND PRAIRIE GPS MONUMENT NO. 43

AN ALUMINUM CAP STAMPED "GPS 43" LOCATED ±220' EAST OF THE NORTHEAST CORNER OF THE INTERSECTION OF POLO ROAD AND MATTHEW, ±4' NORTH OF CURB AND ±6' NORTHWESTERLY FROM NORTHWEST CORNER OF STORM INLET.

ELEV=532.91

GRAND PRAIRIE GPS MONUMENT NO. 78

AN ALUMINUM CAP STAMPED "GP 78" LOCATED IN THE CENTER OF SOUTH HIGH HAWK BOULEVARD, ±50' SOUTHEAST OF THE CENTERLINE OF HOBBY FALCON TRAIL.

ELEV=554.40

USE CITY DETAILS AND STANDARDS FOR ALL PAVING IN CITY R.O.W.

N

0 20 40 80 120
GRAPHIC SCALE IN FEET

## LEGEND

| | |
|---|---|
| B | BOLLARD |
| EM | ELECTRIC METER |
| PP | POWER POLE |
| LS | LIGHT STANDARD |
| WM | WATER METER |
| WV | WATER VALVE |
| ICV | IRRIGATION CONTROL VALVE |
| FH | FIRE HYDRANT |
| CO | CLEANOUT |
| MH | MANHOLE |
| TSC | TRAFFIC SIGNAL CONTROL |
| TSP | TRAFFIC SIGNAL POLE |
| TELE | TELEPHONE BOX |
| XX | FLOOD LIGHT |
| FP | FLAG POLE |
| SIGN | TRAFFIC SIGN |
| IRS | 1/2-INCH IRON ROD W/"PACHECO KOCH" CAP SET |
| (C.M.) | CONTROLLING MONUMENT |
| | PROPERTY LINE |
| x | FENCE |
| 613 | EXIST CONTOUR |
| 460 | PROPOSED CONTOUR |

- 4" REINFORCED CONCRETE (CLASS "A", 3000 PSI)
- PARKING AND DRIVE AREAS, 5" REINFORCED CONCRETE PAVEMENT (CLASS "C", 3600 PSI)
- FIRE LANE, 6" REINFORCED CONCRETE PAVEMENT (CLASS "C", 3600 PSI)
- DUMPSTER AREA, 7" REINFORCED CONCRETE PAVEMENT (CLASS "C", 3600 PSI)
- 6" REINFORCED CONCRETE PAVEMENT (6.5 SACK MIX, 4500 PSI)
- 7" REINFORCED CONCRETE PAVEMENT (6.5 SACK MIX, 4500 PSI)

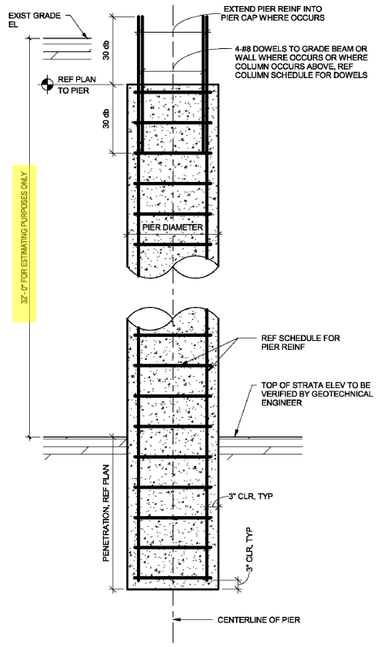
## PAVING GENERAL NOTES

1. ALL DIMENSIONS ARE FROM BACK OF CURB UNLESS OTHERWISE NOTED.
2. ALL CONCRETE SHALL CONFORM TO NCTCOG ITEM 303.3.4, CLASS "A" (3000 PSI) UNLESS OTHERWISE SHOWN ON THESE PLANS, STATED IN STANDARD CITY SPECIFICATIONS OR STATED IN TXDOT STANDARD SPECIFICATIONS.
3. SUBGRADE PREPARATION IN RIGHT OF WAY SHALL CONFORM TO STANDARD CITY SPECIFICATIONS OR TXDOT STANDARD SPECIFICATIONS.
4. ALL FILL PLACED UNDER PAVING SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY IN 6 INCH LIFTS, UNLESS OTHERWISE NOTED, OR STATED IN GEOTECH REPORT. REFER TO STRUCTURAL SPECIFICATIONS FOR FILL PLACED BENEATH BUILDING AREAS. ALL OTHER FILL AREAS TO BE COMPACTED TO 90% STANDARD PROCTOR.
5. THE CONTRACTOR SHALL SUBMIT A JOINT SPACING PLAN TO THE ENGINEER FOR APPROVAL. EXPANSION JOINT SPACING SHALL BE 90' MAXIMUM EACH WAY WITH NO KEYWAYS AND SAWED DUMMY JOINTS SHALL BE 15' EACH WAY, UNLESS OTHERWISE NOTED.
6. TRANSVERSE CONSTRUCTION JOINTS SHALL BE USED AT THE END OF EACH DAYS PAVING AND WHERE INTERRUPTIONS SUSPEND OPERATIONS FOR 30 MINUTES OR MORE.
7. ALL PAVING TO BE REMOVED SHALL BE SAWCUT TO A NEAT LINE, MINIMUM 1-1/2" DEEP AND THE PAVEMENT REMOVED IN SUCH A MANNER AS TO PRESERVE THE EXISTING TRANSVERSE REINFORCING STE POSSIBLE.
8. ALL CURB AND GUTTER SHALL BE INTEGRAL WITH THE PAVEMENT AND HAVE THE SAME C
9. PAVEMENT REINFORCEMENT SHALL BE #3 BARS, SPACED AT 18 INCHES CENTER TO CEN OTHERWISE NOTED IN THE PLANS OR GEOTECH REPORT.
10. BAR LAPS SHALL BE 30 DIAMETERS IN LENGTH.
11. ALL STRIPES SHALL BE 4 INCHES WIDE, UNLESS OTHERWISE NOTED.
12. INSTALLATION AND PLACEMENT OF IRRIGATION SLEEVES AND UTILITY CONDUITS SHA LANDSCAPE ARCHITECT AND MEP PLANS. CONTRACTOR TO VERIFY ALL SLEEVES HAVE E BEING PLACED.
13. SIDEWALKS AND ACCESSIBLE ROUTES SHALL HAVE A RUNNING SLOPE NO GREATER THAN AND A CROSS SLOPE NO GREATER THAN 2%.

WPS LABOR LLC

# SAMPLE PROJECT

PAVING PLAN C3.1



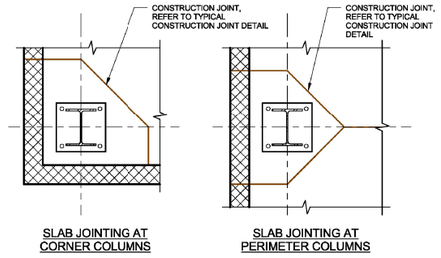

NOTES:

1. 36 db CONTACT LAP SPLICES WILL BE ALLOWED IN PIER VERTICAL REINFORCEMENT EXCEPT IN TOP 5'-0" OF PIER.
2. 48 Bdb CONTACT LAP SPLICES WILL BE ALLOWED IN PIER TIE REINFORCEGMENT.
3. MINIMUM PIER LENGTH ON ALL PIERS SHALL NOT BE LESS THAN 6'-0". MINIMUM PENETRATION SHOWN ON PLAN SHALL BE OBTAINED IN ALL CASES.

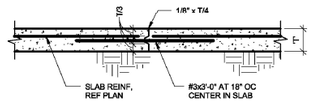
## 05 TYPICAL DRILLED PIER
SCALE: 3/4" = 1'-0"

| PIER SCHEDULE | | |
|---|---|---|
| | REINFORCEMENT | |
| DIAMETER | VERTICAL | TIES |
| 18" | 6-#6 | #3@10" OC |
| 30" | 8-#7 | #3@14" OC |
| | | |
| | | |

## 02 PIER SCHEDULE
SCALE: NO SCALE



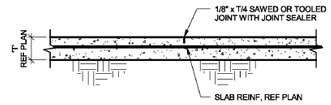

## 06 TYPICAL SLAB-ON-GRADE ISOLATION JOINT AT EXTERIOR COLUMNS - STEEL
SCALE: 3/4" = 1'-0"




NOTES:

1. LOCATE CONSTRUCTION JOINTS PER SPECIFICATIONS.

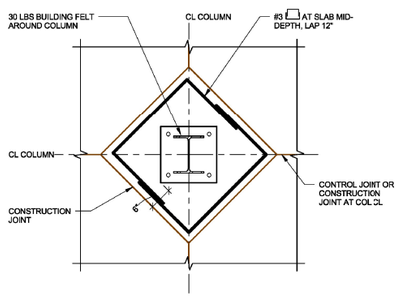
## 03 TYPICAL CONSTRUCTION JOINT SLAB-ON-GRADE
SCALE: 3/4" = 1'-0"



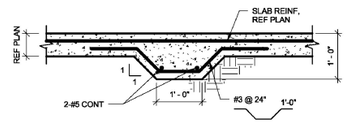

NOTE:

1. LOCATE CONTROL JOINTS PER SPECIFICATIONS.

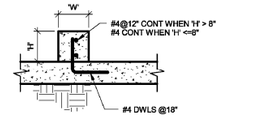
## 04 TYPICAL CONTROL JOINT SLAB-ON-GRADE
SCALE: 3/4" = 1'-0"



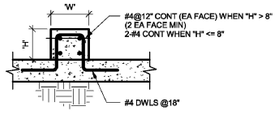

## 07 TYPICAL SLAB-ON-GRADE ISOLATION JOINT AT INTERIOR COLUMNS - STEEL
SCALE: 3/4" = 1'-0"




## 08 TYPICAL THICKENED SLAB
SCALE: 3/4" = 1'-0"

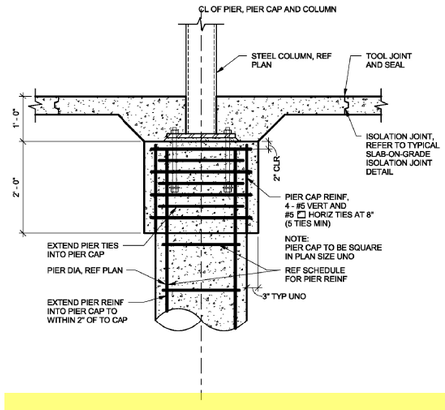



CONC CURB <= 8"

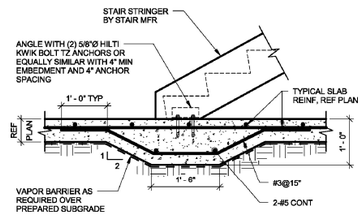



CONC CURB > 8"

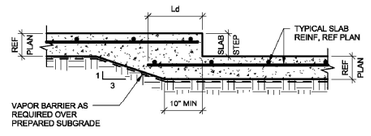
## 09 TYPICAL CONCRETE CURB
SCALE: 3/4" = 1'-0"




## 10 TYPICAL PIER CAP - STEEL COLUMN
SCALE: 3/4" = 1'-0"




## 11 TYPICAL TURNDOWN AT STAIR STRINGER
SCALE: 3/4" = 1'-0"

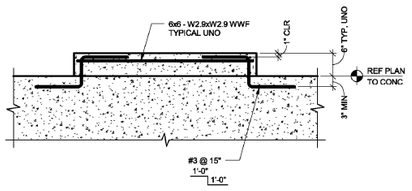



## 12 TYPICAL SLAB STEP <=6"
SCALE: 3/4" = 1'-0"

SAMPLE PROJECT

S010

FOUNDATION TYPICAL DETAILS




## 01 MECHANICAL HOUSEKEEPING PAD AND TOPPING SLAB
SCALE: 3/4" = 1'-0"

**TENSION EMBEDMENT AND SPLICE LENGTHS** [a, b, c, d, e, f]

(ADJUST TABULATED VALUES ADDITIVELY ACCORDING TO NOTE #3)

| BAR SIZE | FUNCTION | CONCRETE STRENGTH f'c 3000 | 3500 | 4000 | 4500 | 5000 | 6000 | 8000 |
|---|---|---|---|---|---|---|---|---|
| # 3 | EMBEDMENT | 14" | 13" | 12" | 12" | 12" | 12" | 12" |
| | { SPLICE } | (19") | (17") | (16") | (15") | (15") | (13") | (12") |
| # 4 | EMBEDMENT | 18" | 17" | 16" | 15" | 14" | 13" | 12" |
| | { SPLICE } | (24") | (23") | (21") | (20") | (19") | (17") | (15") |
| # 5 | EMBEDMENT | 22" | 21" | 19" | 18" | 17" | 16" | 14" |
| | { SPLICE } | (29") | (28") | (25") | (24") | (23") | (21") | (19") |
| # 6 | EMBEDMENT | 27" | 24" | 23" | 22" | 21" | 19" | 17" |
| | { SPLICE } | (36") | (33") | (30") | (29") | (28") | (25") | (23") |
| # 7 | EMBEDMENT | 48" | 45" | 42" | 40" | 38" | 34" | 30" |
| | { SPLICE } | (63") | (59") | (55") | (52") | (50") | (45") | (39") |
| # 8 | EMBEDMENT | 55" | 51" | 48" | 45" | 43" | 39" | 34" |
| | { SPLICE } | (72") | (67") | (63") | (59") | (56") | (51") | (45") |
| # 9 | EMBEDMENT | 62" | 58" | 54" | 51" | 48" | 44" | 38" |
| | { SPLICE } | (81") | (76") | (71") | (67") | (63") | (58") | (50") |
| # 10 | EMBEDMENT | 70" | 65" | 61" | 57" | 63" | 57" | 50" |
| | { SPLICE } | (91") | (85") | (80") | (75") | (71") | (65") | (56") |
| # 11 | EMBEDMENT | 78" | 72" | 67" | 64" | 60" | 55" | 48" |
| | { SPLICE } | (102") | (94") | (88") | (84") | (78") | (72") | (63") |

VERIFY CLEAR COVER - REF. 'a'

NOTES:
1. TABLE VALUES COMPILED BASED ON SECTION 12.2 OF ACI 318.
2. SPLICE LENGTH VALUES SHOWN IN BRACKETS ARE **CLASS 'B'** TENSION SPLICES
   db = NOMINAL BAR DIAMETER
3. ADJUST TABULATED VALUES ADDITIVELY ACCORDING TO NOTES:
   a. TABLE VALUES ARE BASED ON GRADE 60 UNCOATED BARS IN NORMAL WEIGHT CONCRETE WITH MINIMUM CLEAR COVER OF (1)db & MIN (2)db CLEAR SPACING BETWEEN ALL BARS. FOR ALL OTHER CASES MULTIPLY TABULATED VALUES BY **1.5**.
   b. TABULATED VALUES SHALL BE MULTIPLIED BY **1.3** FOR **"TOP BAR"** HORIZONTAL REINFORCEMENT CAST WITH MORE THAN 12 INCHES OF CONCRETE BELOW THE BAR.
   c. TABULATED VALUES SHALL BE MULTIPLIED BY **1.5** FOR EPOXY COATED BARS.
   d. TABULATED VALUES SHALL BE MULTIPLIED BY **1.3** FOR LIGHT WEIGHT CONCRETE.
   e. PRODUCT OF MULTIPLIERS FROM 'b' AND 'c' NEED NOT BE GREATER THAN 1.7.
   f. TABULATED VALUES SHALL BE MULTIPLIED BY THE RATIO OF THE REINFORCEMENT YIELD STRENGTH DIVIDED BY 60 FOR REBAR OTHER THAN GRADE 60.

## 02 TYPICAL EMBEDMENT AND SPLICE LENGTHS
SCALE: NO SCALE

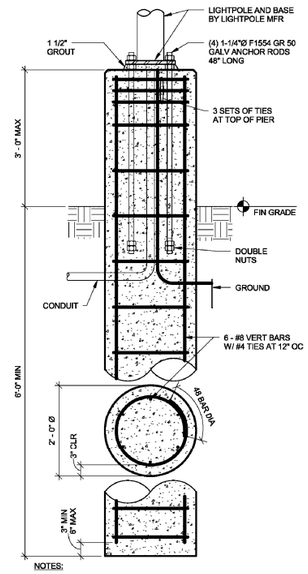
**DEVELOPMENT LENGTHS (Ld) OF STANDARD HOOKS IN TENSION** [a, b, c, d]

(ADJUST TABULATED VALUES ADDITIVELY ACCORDING TO NOTE #3)

| BAR SIZE | FUNCTION | CONCRETE STRENGTH f'c 3000 | 3500 | 4000 | 4500 | 5000 | 6000 | 8000 |
|---|---|---|---|---|---|---|---|---|
| # 3 | CASE 1 CVR | 9" | 8" | 8" | 7" | 7" | 6" | 6" |
| | { CASE 2 CVR } | (7") | (6") | (6") | (6") | (6") | (6") | (6") |
| # 4 | CASE 1 CVR | 11" | 11" | 10" | 9" | 9" | 8" | 7" |
| | { CASE 2 CVR } | (8") | (8") | (7") | (7") | (7") | (6") | (6") |
| # 5 | CASE 1 CVR | 14" | 13" | 12" | 12" | 11" | 10" | 9" |
| | { CASE 2 CVR } | (10") | (10") | (9") | (9") | (8") | (7") | (7") |
| # 6 | CASE 1 CVR | 17" | 16" | 15" | 14" | 13" | 12" | 11" |
| | { CASE 2 CVR } | (12") | (12") | (11") | (10") | (10") | (9") | (8") |
| # 7 | CASE 1 CVR | 20" | 18" | 17" | 16" | 15" | 14" | 12" |
| | { CASE 2 CVR } | (14") | (13") | (12") | (12") | (11") | (10") | (9") |
| # 8 | CASE 1 CVR | 22" | 21" | 19" | 18" | 17" | 16" | 14" |
| | { CASE 2 CVR } | (16") | (15") | (14") | (13") | (12") | (12") | (10") |
| # 9 | CASE 1 CVR | 25" | 23" | 22" | 21" | 20" | 18" | 16" |
| | { CASE 2 CVR } | (18") | (17") | (16") | (15") | (14") | (13") | (12") |
| # 10 | CASE 1 CVR | 28" | 26" | 25" | 23" | 22" | 20" | 18" |
| | { CASE 2 CVR } | (20") | (19") | (18") | (17") | (16") | (14") | (13") |
| # 11 | CASE 1 CVR | 31" | 29" | 27" | 26" | 24" | 22" | 19" |
| | { CASE 2 CVR } | (22") | (21") | (19") | (19") | (17") | (16") | (14") |

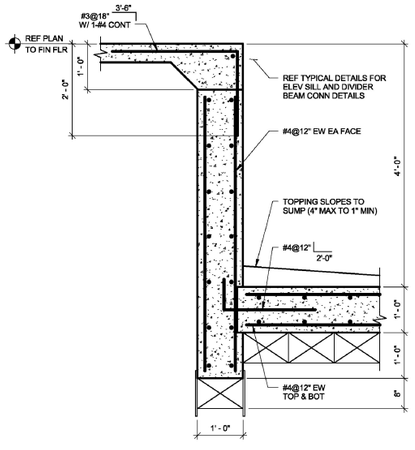
NOTES:
1. TABLE VALUES COMPILED BASED ON SECTION 12.5 OF ACI 318
2. CASE 1 CVR INDICATES MINIMUM CLEAR COVER TO BAR AND HOOK AND ANY CONDITIONS NOT SPECIFICALLY MEETING CASE 2 CVR.
   CASE 2 CVR INDICATES MINIMUM SIDE COVER OF 2-1/2" AND 2" END COVER.
3. ADJUST TABULATED VALUES ADDITIVELY ACCORDING TO NOTES:
   a. TABLE VALUES ARE BASED ON GRADE 60 UNCOATED BARS IN NORMAL WEIGHT CONCRETE.
   b. TABULATED VALUES SHALL BE MULTIPLIED BY **1.2** FOR EPOXY COATED BARS.
   c. TABULATED VALUES SHALL BE MULTIPLIED BY **1.3** FOR LIGHT WEIGHT CONCRETE.
   d. TABULATED VALUES SHALL BE MULTIPLIED BY THE RATIO OF THE REINFORCEMENT YIELD STRENGTH DIVIDED BY 60 FOR REBAR OTHER THAN GRADE 60.

## 03 TYPICAL HOOK DEVELOPMENT LENGTHS
SCALE: NO SCALE

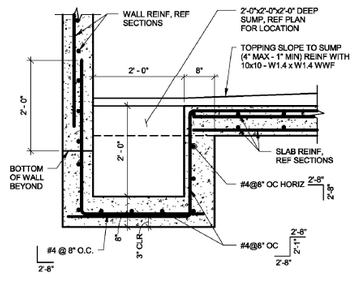



NOTES:
1. FOUNDATION DESIGNED FOR 90 MPH, 3 SEC GUST.
2. DRILLED PIER SHALL BE 3500 PSI NW CONC.
3. REINFORCING STEEL SHALL BE ASTM A615 GRADE 60.

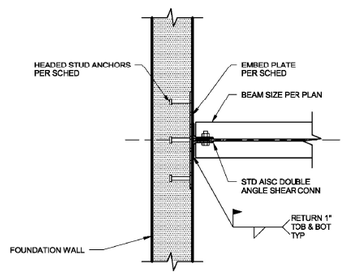
## 04 TYPICAL LIGHT POLE FOUNDATION
SCALE: 3/4" = 1'-0"




## 05 TYPICAL ELEVATOR PIT WITH PIERS
SCALE: 3/4" = 1'-0"



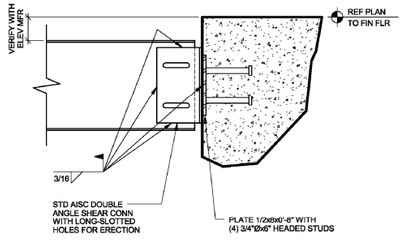

## 06 TYPICAL SUMP PIT
SCALE: 3/4" = 1'-0"



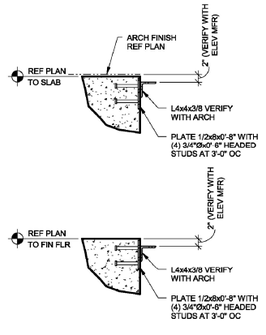

| BEAM SIZE | EMBED PLATE | HEADED STUDS | STUD PATTERN | MAX SERV LD |
|---|---|---|---|---|
| W8<br>W10<br>W12 | 5/8x12x1'-2" | (4) 3/4"Ø x6" | | 25k |
| W14<br>W16 | 3/4x12x1'-8" | (8) 3/4"Ø x6" | | 50k |
| W18<br>W21 | 3/4x18x2'-0" | (12) 3/4"Ø x6" | | 85k |
| W24<br>W27 | 1x20x2'-8" | (15) 3/4"Ø x6" | | 115k |

NOTES:
1. ANGLE MATERIAL ASTM A36.
2. HEADED ANCHORS AND DBAs SHALL BE FULL FUSION WELDED TO THE ANGLES USING NELSON SYSTEM, OR EQUAL. STICK WELDING IS NOT PERMITTED.
3. THE NUMBER OF STUDS AND DBAs SHOWN ARE THE NUMBER REQUIRED FOR EACH ANGLE.

## 07 TYPICAL BEAM TO CONCRETE WALL CONNECTION
SCALE: 1" = 1'-0"




## 08 TYPICAL ELEVATOR BEAM
SCALE: 1 1/2" = 1'-0"



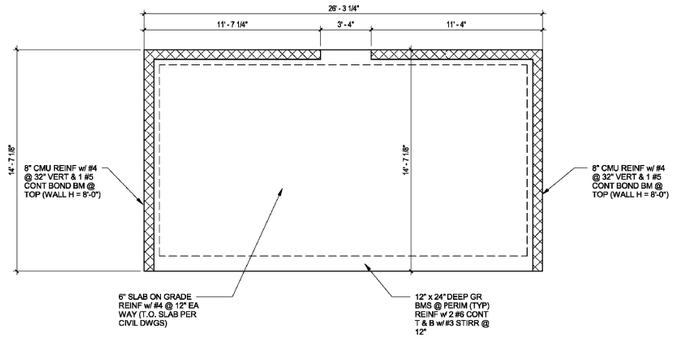

## 09 TYPICAL ELEVATOR SILL
SCALE: 3/4" = 1'-0"

SAMPLE PROJECT

S011

FOUNDATION TYPICAL DETAILS

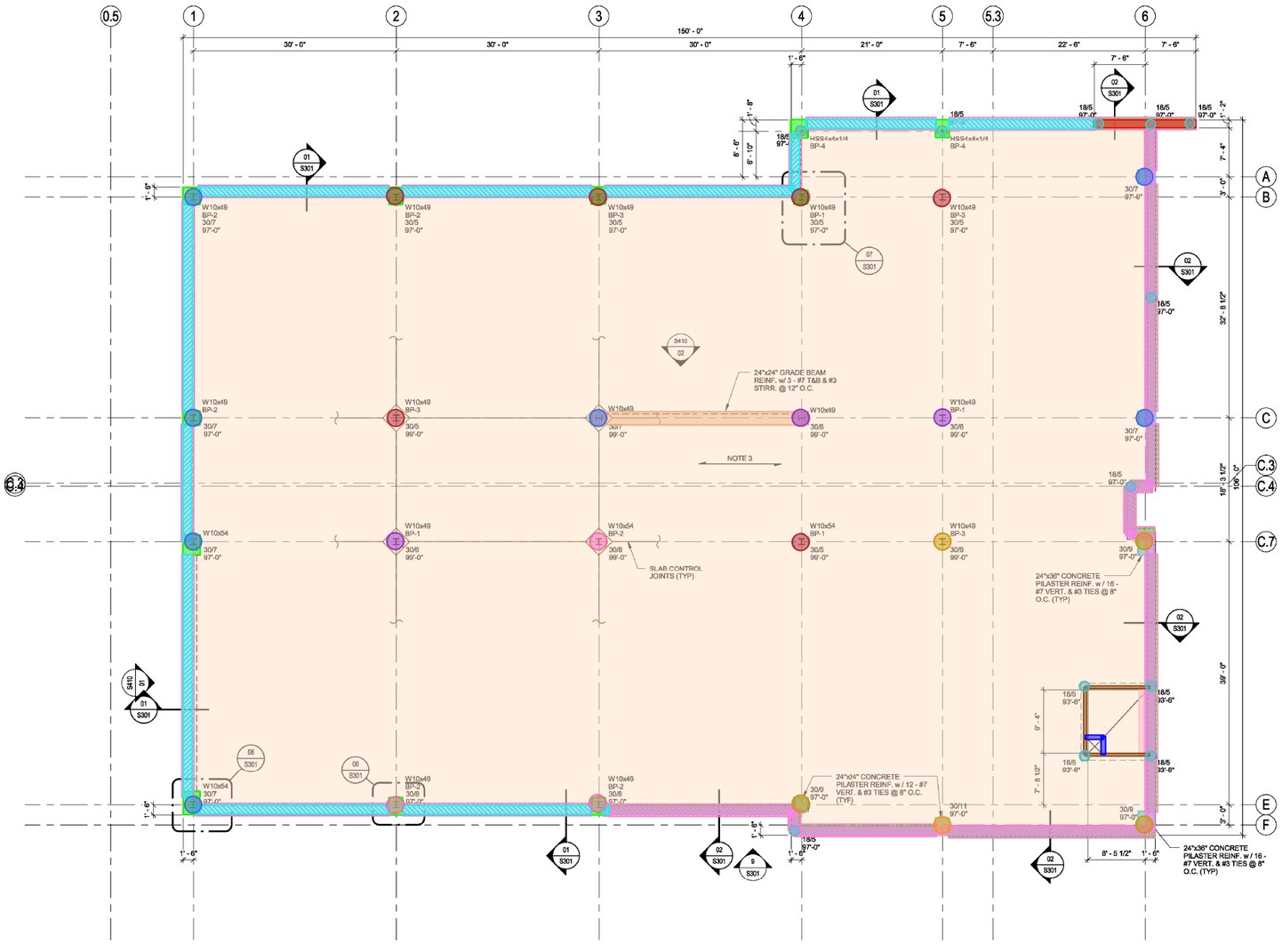
- (unassigned) - Marker - Q1 1 EA
- Concrete (3000 PSI) - Pier 30/39 - Q1 50 CY
- Concrete (3000 PSI) - Pier 30/37 - Q1 40 CY
- Concrete (3000 PSI) - Pier 30/38 - Q1 21 CY
- Concrete (3000 PSI) - Pier 30/40 - Q1 22 CY
- Concrete (3000 PSI) - Pier 18/37 - Q1 29 CY
- Concrete (3000 PSI) - Pier 30/41 - Q1 30 CY
- Concrete (3000 PSI) - Pier 30/43 - Q1 8 CY
- Concrete (3500 PSI) - Slab On Grade - Q1 217 CY
- Concrete (3500 PSI) - Elevator pit wall @ 6' - Q1 3 CY
- Concrete (3500 PSI) - Elevator Pit Sump Wall @ 2'8" - Q1 0 CY
- Concrete (3500 PSI) - Elevator pit wall @ 4'6" - Q1 1 CY
- Concrete (4000 PSI) - 24"x24" Grade beam - Q1 5 CY
- Concrete (4000 PSI) - 24"x16", Grade Beam - Q1 27 CY
- Concrete (4000 PSI) - 28"x16", Grade Beam - Q1 23 CY
- Concrete (4000 PSI) - Edge Slab @ 6" - Q1 16 CY
- Concrete (4000 PSI) - Rcc wall @ 12'9" - Q1 15 LF ; Q2 226 CF
- Concrete (4000 PSI) - Rcc wall @ 13'7" - Q1 194 LF ; Q2 3,069 CF
- Concrete (4000 PSI) - Pier Cap - Q1 5 CY
- Concrete (4000 PSI) - 24"x24" Concrete Pilaster - Q1 16 CY




2 S101 **DUMPSTER ENCLOSURE**
1/4" = 1'-0"

FOUNDATION PLAN NOTES:

1. TOP OF FINISHED CONCRETE ELEVATION = 100'-0" TYP UNO.
2. TOP OF FOOTING/PIER ELEVATION = 97'-0", TYP UNO.
3. THE FLOOR IS COMPOSED OF 5" THICK NWC SLAB-ON-GRADE REINFORCED WITH 6x6-W2.9xW2.9 WWF .
4. ALL FOOTINGS/PIERS ARE CENTERED ON THE WALL/COLUMN, UNO.
5. REFER TO S001-S002 FOR GENERAL NOTES, SYMBOLS AND ANNOTATIONS.
6. REFER TO S010-S015 FOR TYPICAL DETAILS.
7. REFER TO S-300 SERIES FOR FOUNDATION AND SLAB-ON-GRADE SECTIONS AND DETAILS.
8. REFER TO S010 FOR PIER SCHEDULE.
9. REFER TO ARCHITECTURAL DRAWINGS FOR INFORMATION REGARDING DEPRESSEDSLAB AREAS, SLOPES, DRAINS, CURBS, ETC.
10. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS TO COORDINATESLAB OPENINGS.




1 S101 **LEVEL 1 FRAMING PLAN**
1/8" = 1'-0"

SAMPLE PROJECT

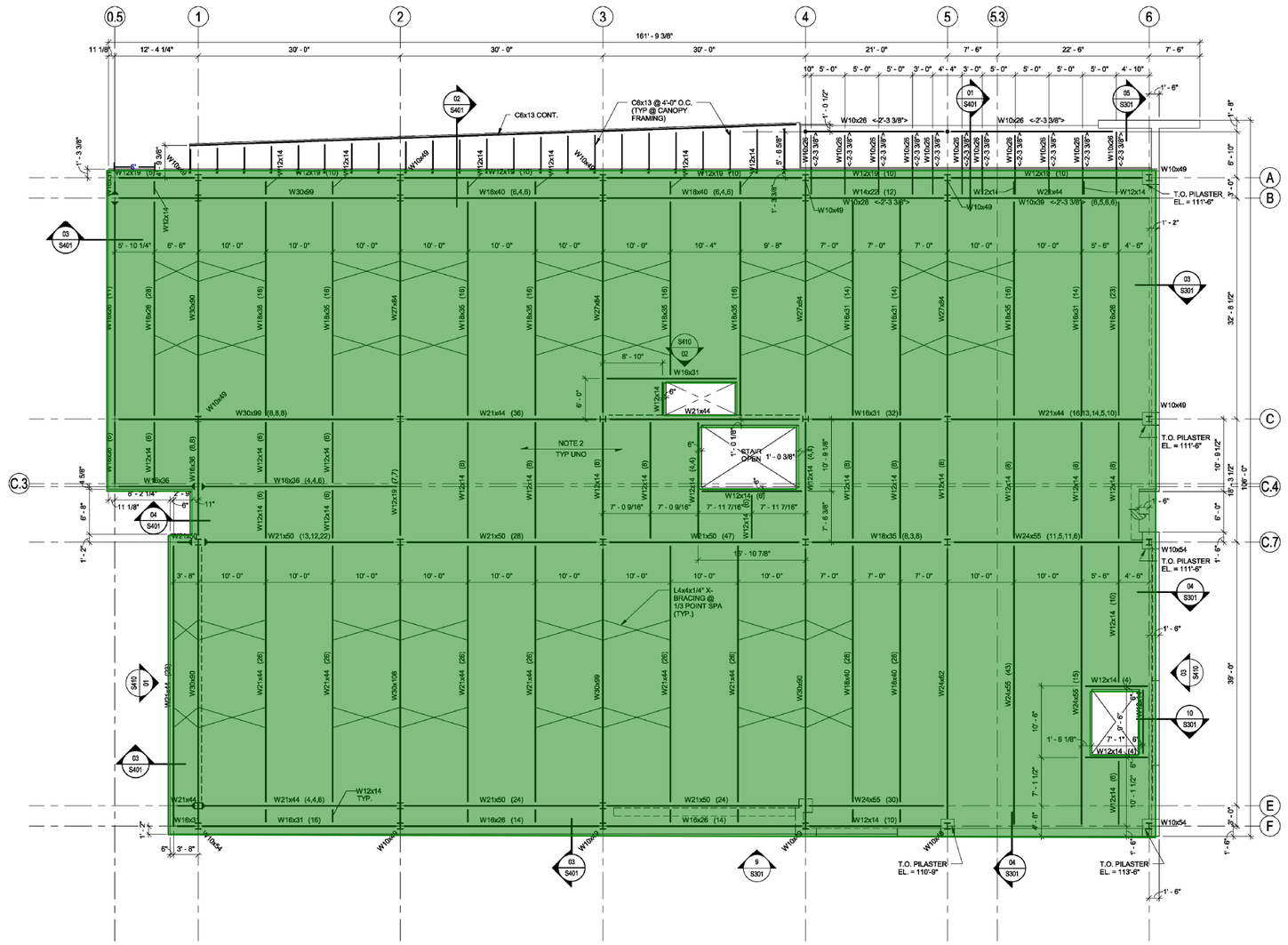
S101

LEVEL 1 FRAMING PLAN

(unassigned) - Marker - Q1 1 EA
Concrete (3500 PSI) - Slab 2nd Level - Q1 180 CY

LEVEL 2 PLAN NOTES:

1. TOP OF FINISHED CONCRETE DECK ELEVATION = 114'-0".
2. LEVEL 2 SLAB IS COMPOSED OF 3" NWC SLAB ON 2" 18 GA GALV COMPOSITE STEEL DECK (5" TOTAL) REINFORCED WITH 6X6-W2.9xW2.9 WWF.
4. REFER TO S-001 - S-002 FOR GENERAL NOTES, SYMBOLS AND ANNOTATIONS.
5. REFER TO S-010 - S-014 FOR TYPICAL DETAILS.
6. REFER TO S-400 SERIES FOR FRAMING SECTIONS AND DETAILS.
7. REFER TO ARCHITECTURAL DRAWINGS FOR INFORMATION REGARDING DEPRESSED SLAB AREAS, SLOPES, DRAINS, CURBS, ETC.
8. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS TO COORDINATE SLAB OPENINGS.




1 S102 **LEVEL 2 FRAMING PLAN**
1/8" = 1'-0"

SAMPLE PROJECT

S102

LEVEL 2 FRAMING PLAN